L1 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2003 ACS

RN 139755-83-2 REGISTRY

CN Piperazine, 1-[[3-(4,7-dihydro-1-methyl-7-oxo-3-propyl-1H-pyrazolo[4,3-d]pyrimidin-5-yl)-4-ethoxyphenyl]sulfonyl]-4-methyl- (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1H-Pyrazolo[4,3-d]pyrimidine, piperazine deriv.

OTHER NAMES:

CN 5-[2-Ethoxy-5-(4-methyl-1-piperazinylsulfonyl)phenyl]-1-methyl-3-n-propyl-1,6-dihydro-7H-pyrazolo[4,3-d]pyrimidin-7-one

CN Sildenafil VIAGRA

FS 3D CONCORD

MF C22 H30 N6 O4 S

CI COM

SR CA

=>

LC STN Files: ADISINSIGHT, ADISNEWS, ANABSTR, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CANCERLIT, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS, CIN, CSCHEM, DDFU, DIOGENES, DRUGNL, DRUGPAT, DRUGU, DRUGUPDATES, EMBASE, IPA, MEDLINE, MRCK*, PHAR, PROMT, SYNTHLINE, TOXCENTER, USAN, USPAT2, USPATFULL, VETU

(*File contains numerically searchable property data)
Other Sources: WHO

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

389 REFERENCES IN FILE CA (1962 TO DATE)
6 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
393 REFERENCES IN FILE CAPLUS (1962 TO DATE)

=> file reg; d stat que 110 FILE 'REGISTRY' ENTERED AT 14:29:26 ON 16 JUL 2002 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS. COPYRIGHT (C) 2002 American Chemical Society (ACS)

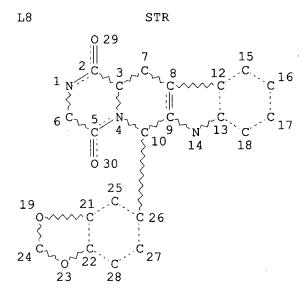
STRUCTURE FILE UPDATES: 15 JUL 2002 HIGHEST RN 438572-95-3 DICTIONARY FILE UPDATES: 15 JUL 2002 HIGHEST RN 438572-95-3

TSCA INFORMATION NOW CURRENT THROUGH January 7, 2002

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Calculated physical property data is now available. See HELP PROPERTIES for more information. See STNote 27, Searching Properties in the CAS Registry File, for complete details: http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf



NODE ATTRIBUTES: DEFAULT MLEVEL IS ATOM DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES: RING(S) ARE ISOLATED OR EMBEDDED NUMBER OF NODES IS 28

STEREO ATTRIBUTES: NONE

L10 178 SEA FILE=REGISTRY SSS FUL L8

100.0% PROCESSED 189 ITERATIONS 178 ANSWERS SEARCH TIME: 00.00.01

=> file caplus; d que nos 111; d que nos 112 FILE 'CAPLUS' ENTERED AT 14:30:16 ON 16 JUL 2002 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS. COPYRIGHT (C) 2002 AMERICAN CHEMICAL SOCIETY (ACS)

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FILE COVERS 1907 - 16 Jul 2002 VOL 137 ISS 3 FILE LAST UPDATED: 15 Jul 2002 (20020715/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

CAS roles have been modified effective December 16, 2001. Please check your SDI profiles to see if they need to be revised. For information on CAS roles, enter HELP ROLES at an arrow prompt or use the CAS Roles thesaurus (/RL field) in this file.

 18 STR 178 SEA FILE=REGISTRY SSS FUL L8 L10 38 SEA FILE=CAPLUS ABB=ON PLU=ON L10 L11 $\Gamma8$ STR 178 SEA FILE=REGISTRY SSS FUL L8 L1038 SEA FILE=CAPLUS ABB=ON PLU=ON L10 T.11

=> d ibib abs hitstr 112 1-37

L12

L12 ANSWER 1 OF 37 CAPLUS COPYRIGHT 2002 ACS ACCESSION NUMBER: 2002:427673 CAPLUS

DOCUMENT NUMBER: 137:3711

TITLE: Cells and animals homozygous or heterozygous for a

knockout of the PDE11A gene and their uses

Burslem, Martin F.; Harrow, Ian Dennis; Lanfear, INVENTOR(S):

Jeremy; Phillips, Stephen C.

37 SEA FILE=CAPLUS ABB=ON PLU=ON L11 AND PHARMAC?/SC,SX

Pfizer Limited, UK; Pfizer Inc.

PATENT ASSIGNEE(S): SOURCE: Eur. Pat. Appl., 31 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

DATE KIND APPLICATION NO. PATENT NO. _____ _____ A2 20020605 EP 2001-308959 20011022 EP 1211313 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR PRIORITY APPLN. INFO.:

GB 2000-26727 A 20001101 GB 2001-11710 A 20010514

Animal cells and animals carrying a knockout of the gene for the cyclic AB nucleotide phosphodiesterase PDE11 are described for use in anal. of the role of the enzyme, esp. in spermatogenesis and in the screening of drugs for regulation of spermatogenesis. Heterozygous knockout mice show lowered levels of spermatogenesis. The effect of the knockout on patterns of gene expression was analyzed by microarray hybridization. Known inhibitors of cyclic nucleotide phosphodiesterases were tested for their ability to inhibit PDE11. The pattern of inhibition was similar to, but distinct from, that for PDE5. Array hybridization was used to analyze the effects of PDE11 knockout on gene expression in testis. Twenty-four genes (18 down-regulated and 6 up-regulated) were identified. These gene products may themselves be therapeutic targets for PDE11-related disease (no data).

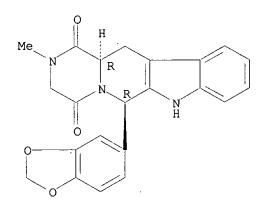
ΙT **171596-29-5**, IC-351

RL: PAC (Pharmacological activity); BIOL (Biological study) (as inhibitor of PDE11; cells and animals homozygous or-heterozygous for knockout of PDE11A gene and their uses)

RN 171596-29-5 CAPLUS

Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5+yl)-CN 2,3,6,7,12,12a-hexahydro-2-methyl-, (6R,12aR)- (9CI) \ (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



CAPLUS COPYRIGHT 2002 ACS L12 ANSWER 2 OF 37

2002:391540 CAPLUS ACCESSION NUMBER:

DOCUMENT NUMBER: 136:380144

TITLE: Phosphodiesterase V inhibitors for the treatment of

premature ejaculation

INVENTOR(S): Boolell, Mitradev

Pfizer Limited, UK; Pfizer Inc. PATENT ASSIGNEE(S):

SOURCE: PCT Int. Appl., 31 pp. CODEN: PIXXD2

DOCUMENT TYPE: Patent

English LANGUAGE:

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.				KIND		DATE			A	PPLI	CATI	ON NO	э.	DATE				
								_										
WO 2002040027			A1 20020523				W	0 20	01-1	B218	0	2001	1119					
		W:	AE,	AG,	AL,	AM,	AT,	AU,	ΑZ,	BA,	BB,	BG,	BR,	BY,	ΒZ,	CA,	CH,	CN,
							DE,											
							IL,											

LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG US 2002091129 A1 20020711 US 2001-990955 20011116
PRIORITY APPLN. INFO::

GB 2000-28245 A 20001120
US 2001-260564P P 20010109

AB The invention relates to the use of cGMP phosphodiesterase V inhibitors, including in particular the compd. sildenafil, for the treatment of premature ejaculation in patients with normal erectile function.

IT **171596-29-5**, IC 351

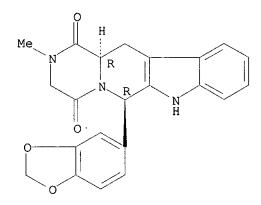
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(phosphodiesterase V inhibitors for treatment of premature ejaculation)

RN 171596-29-5 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2,3,6,7,12,12a-hexahydro-2-methyl-, (6R,12aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 3 OF 37 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER:

2002:353456 CAPLUS

DOCUMENT NUMBER:

136:369739

TITLE:

Preparation of pyrazino[1',2':1,6]pyrido[3,4-b]indole

derivatives as phosphoesterase inhibitors for use as

therapeutic agents

INVENTOR(S):

Orme, Mark W.; Sawyer, Jason Scott; Schultze, Lisa M.

PATENT ASSIGNEE(S):

Lilly Icos L.L.C., USA PCT Int. Appl., 66 pp.

SOURCE:

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND I	DATE	APPLICATION NO.	DATE				
WO 2002036593	A1 2	20020510	WO 2001-US31364	20011009				
W: AE, AG,	AL, AM,	AT, AU, AZ,	BA, BB, BG, BR, BY,	BZ, CA, CH, CN,				
			DZ, EC, EE, ES, FI,					
GM, HR,	HU, ID,	IL, IN, IS,	JP, KE, KG, KP, KR,	KZ, LC, LK, LR,				

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LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG PRIORITY APPLN. INFO:

US 2000-246257P P 20001106

OTHER SOURCE(S):

MARPAT 136:369739
```

2,3,6,7,12,12A-hexahydropyrazino[1',2':1,6]pyrido[3,4-b]indole derivs., such as I [R = halo, alkyl; R1 = H, alkyl, alkenyl, alkynyl, haloalkyl, cycloalkyl, heteroarylalkyl, etc.; R2 = monocyclic arom. ring, such as benzene, thiophene, furan, pyridine, etc.; R3 = H, alkyl; R1,R3 = fused carbocyclic ring; X, Y = CO, SO, SO2, CS, C(Ra)2; Ra = H, alkyl, benzyl; q = 0-4], pharmaceutically acceptable salts and solvates thereof, were prepd. for pharmaceutical use as phosphodiesterase inhibitors for the treatment of conditions, such as erectile dysfunction, female arousal disorder, angina, hypertension, and vascular disease. Thus, pyrazinopyridoindole deriv. II was prepd. by a multistep procedure starting with D-Tryptophan Me ester, piperonal and chloroacetaldehyde. The prepd. heterocycles were tested for phosphodiesterase V (PDE5) inhibitory activity with II exhibiting an IC50 of 54 nM.

IT 171596-29-5P

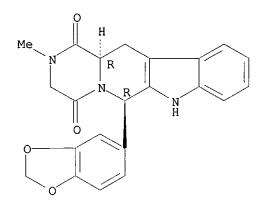
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(prepn. of pyrazino[1',2':1,6]pyrido[3,4-b]indole derivs. as phosphoesterase inhibitors for use as therapeutic agents)

RN 171596-29-5 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2,3,6,7,12,12a-hexahydro-2-methyl-, (6R,12aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



REFERENCE COUNT:

3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 4 OF 37 CAPLUS COPYRIGHT 2002 ACS ACCESSION NUMBER: 2002:241329 CAPLUS

DOCUMENT NUMBER: 136:284433

TITLE: Administration of phosphodiesterase inhibitors for the

treatment of premature ejaculation

INVENTOR(S): Wilson, Leland F.; Doherty, Paul C.; Place, Virgil A.;

Smith, William L.; Abdel-Hamid, Abdou Ali Ibrahim

Aboubakr

PATENT ASSIGNEE(S): USA

SOURCE: U.S. Pat. Appl. Publ., 21 pp., Cont.-in-part of U.S.

Ser. No. 467,094.

CODEN: USXXCO

DOCUMENT TYPE:

Patent English

LANGUAGE: Engl

FAMILY ACC. NUM. COUNT: 6

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO. DATE
US 2002037828	A1	20020328	US 2001-888250 20010621
US 6403597	B2	20020611	
US 6037346	Α	20000314	US 1998-181070 19981027
PRIORITY APPLN. INFO.	:		US 1997-958816 B2 19971028
			US 1998-181070 · A2 19981027
			US 1999-467094 A2 19991210

AB A method is provided for treatment of premature ejaculation by administration of a phosphodiesterase inhibitor, e.g., an inhibitor of a Type III, Type IV, or Type V phosphodiesterase. In a preferred embodiment, administration is on as "as needed" basis, i.e., the drug is administered immediately or several hours prior to sexual activity. Pharmaceutical formulations and packaged kits are also provided. Zaprinast 1.0, mannitol 1.0, microcryst. cellulose 2.0, and magnesium stearate 10 mg are blended in a suitable mixer and then compressed into sublingual tablets. Each sublingual tablet contains 10 mg zaprinast.

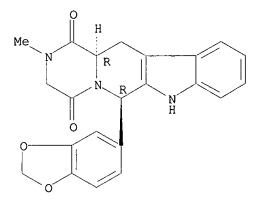
IT **171596-29-5**, GF 196960

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (GF 196960; administration of phosphodiesterase inhibitors for treatment of premature ejaculation)

RN 171596-29-5 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2,3,6,7,12,12a-hexahydro-2-methyl-, (6R,12aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



L12 ANSWER 5 OF 37 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 2002:142493 CAPLUS

DOCUMENT NUMBER: 136:194255

TITLE: Treatment of the insulin resistance syndrome

INVENTOR(S): Fryburg, David Albert; Gibbs, Earl Michael; Koppiker,

Nandan Parmanand

PATENT ASSIGNEE(S): Pfizer Limited, UK; Pfizer Inc.

SOURCE: PCT Int. Appl., 61 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	K	IND DA		A	PPLI	CATI	ο.	DATE						
WO 2002013	798 .	A2 20020221			W	0 20	01-II	B142	3	20010806				
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GM,	HR, HU	, ID, I	L, IN,	IS,	JP,	ΚE,	KG,	KP,	KR,	KΖ,	LC,	LK,	LR,	
	LT, LU					•								
	RU, SD											UG,	US,	
	VN, YU													
RW: GH	GM, KE	, LS, M	W, MZ,	SD,	SL,	SZ,	ΤZ,	UG,	ZW,	ΑT,	BE,	CH,	CY,	
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BJ	CF, CG	, CI, C	M, GA,	GN,	GQ,	GW,	ML,	MR,	ΝE,	SN,	TD,	TG		
AU 2001076	507 .	A5 20	020225	AU 2001-76607 20010806										
PRIORITY APPLN.	INFO.:	•		τ	JS 2	000-	2249:	28 P	P	2000	0811			
				GB 2000-30649				9	Α	20001215				
	τ	US 2001-266083P P 20010202				0202								
	(GB 2	001-	6465		A	20010315							
	(GB 2	001-	6468		Α	2001	0315						
	(GB 2	001-	1713	4	Α	2001	0713						
				1	WO 2	001-	IB14:	28	W	2001	0806			

AB Use of a selective cGMP PDE5 inhibitor or a pharmaceutical compn. thereof in the prepn. of a medicament for the curative, palliative or prophylactic treatment of the insulin resistance syndrome wherein the insulin resistance syndrome means the concomitant existence in a subject of two or more of: dyslipidemia; hypertension; type 2 diabetes mellitus, impaired glucose tolerance (IGT) or a family history of diabetes; hyperuricemia and/or gout; a pro-coagulant state; atherosclerosis; or truncal obesity wherein said use can occur alone or in combination with other agents to treat the insulin resistance syndrome or individual aspects of the insulin

resistance syndrome. **171596-29-5**, IC-351

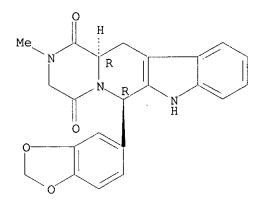
RL: DMA (Drug mechanism of action); PAC (Pharmacological activity); PKT (Pharmacokinetics); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(treatment of the insulin resistance syndrome)

RN 171596-29-5 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2,3,6,7,12,12a-hexahydro-2-methyl-, (6R,12aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



L12 ANSWER 6 OF 37 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 2002:122770 CAPLUS

DOCUMENT NUMBER: 136:178015

TITLE: Drugs for incontinence - salified and nonsalified

nitric oxide-donors and phosphodiesterase inhibitors

INVENTOR(S): Del Soldato, Piero; Benedini, Francesca

PATENT ASSIGNEE(S): Nicox S.A., Fr.

SOURCE: PCT Int. Appl., 59 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

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PATENT NO.
                                       KIND
                                                  DATE
                                                                             APPLICATION NO.
                                                                                                            DATE
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                                                                              ______
                                                  20020214
                                                                             WO 2001-EP8734
                                                                                                            20010727
        WO 2002011707
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PRIORITY APPLN. INFO .:
                                                                         IT 2000-MI1848
                                                                                                            20000808
                                                                                                       W 20010727
                                                                        WO 2001-EP8734
```

OTHER SOURCE(S): MARPAT 136:178015

AB Use in the incontinence of one or more of the following classes of drugs selected from the following: (B) salified and nonsalified nitric oxide-donor drugs, of formula: A - X1 - N(0)z, (B') nitrate salts of drugs used for the incontinence, and which do not contain in the mol. a nitric oxide donor group; (C) org. or inorg. salts of compds. inhibiting

phosphodiesterases.

IT 171596-29-5

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL

(Biological study); USES (Uses)

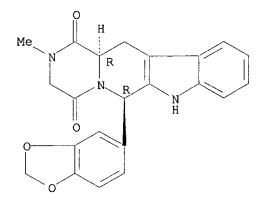
(salified and nonsalified nitric oxide-donors and phosphodiesterase

inhibitors for treatment of incontinence)

171596-29-5 CAPLUS RN

Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-CN 2,3,6,7,12,12a-hexahydro-2-methyl-, (6R,12aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



CAPLUS COPYRIGHT 2002 ACS L12 ANSWER 7 OF 37

ACCESSION NUMBER:

2002:107344 CAPLUS

DOCUMENT NUMBER:

136:151441

TITLE:

Preparation of fused heterocyclic derivatives as

phosphodiesterase inhibitors

INVENTOR(S):

Orme, Mark W.; Sawyer, Jason Scott; Schultze, Lisa M.

PATENT ASSIGNEE(S):

Lilly Icos L.L.C., USA

PCT Int. Appl., 105 pp.

SOURCE:

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

OT GI English

1

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PA'	PATENT NO. KI 				KIND DATE			APPLICATION NO.						DATE				
WO					A1 20020207				W.	20	 01-U	 78	20010709					
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														GB,				
														ΚZ,				
		LS,	LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	ΜZ,	NO,	NZ,	PL,	PT,	
		RO,	RU,	SD,	SE,	SG,	SI,	SK,	SL,	ТJ,	TM,	TR,	TT,	ΤZ,	UA,	UG,	US,	
		UZ,	VN,	YU,	ZA,	ZW,	AM,	ΑZ,	BY,	KG,	ΚZ,	MD,	RU,	ТJ,	TM			
	RW:	GH,	GM,	KE,	LS,	MW,	ΜZ,	SD,	SL,	SZ,	TZ,	UG,	ZW,	AT,	BE,	CH,	CY,	
		DE,	DK,	ES,	FI,	FR,	GB,	GR,	ΙE,	IT,	LU,	MC,	NL,	PT,	SE,	TR,	BF,	
		ВJ,	CF,	CG,	CI,	CM,	GΑ,	GN,	GW,	ML,	MR,	ΝE,	SN,	TD,	TG			
PRIORITY APPLN. INFO.:						US 2000-222451P P 20000802												
OTHER SOURCE(S):						MARPAT 136:151441												
GT																		

$$\begin{array}{c|c} & & & & \\ \hline R_{\overline{q}} & & & & \\ \hline N_{H} & & & & \\ \hline N_{R2} & & & \\ \hline N_{R2} & & & \\ \end{array}$$

Ι

AB Compds. I [R = halo, alkyl; q = 0-4; R1 = H, alkyl, alkenyl, alkynyl, haloalkyl, cycloalkyl, cycloalkylalkyl, arylalkyl, heteroarylalkyl; R2 is an optionally substituted monocyclic arom. ring selected from benzene, thiophene, furan, and pyridine or an optionally substituted bicyclic ring; X = NH or substituted imino, O, S, substituted methylene or ethylene; the substituents may form addnl. rings] and their salts and solvates were prepd. for use as phosphodiesterase (PDE) inhibitors. Thus, compd. II was prepd. by a multistep procedure starting with coupling of L-tryptophan Me ester with CbzNMeCMe2CO2H (Cbz = benzyloxycarbonyl) and showed IC50 = 161.0 nM for inhibition of cGMP-PDE.

IT 395665-39-1P 395665-40-4P

RN

RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses) (prepn. of fused heterocyclic derivs. as phosphodiesterase inhibitors) 395665-39-1 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-3-propanoic acid, 6-(1,3-benzodioxol-5-yl)-1,2,3,4,6,7,12,12a-octahydro-1,4-dioxo-,1,1-dimethylethyl ester, (3S,6R,12aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

RN 395665-40-4 CAPLUS
CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-3-propanoic acid,
6-(1,3-benzodioxol-5-yl)-1,2,3,4,6,7,12,12a-octahydro-1,4-dioxo-,
(3S,6R,12aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

IT 395665-35-7P 395665-36-8P 395665-41-5P 395665-42-6P 395665-43-7P 395665-47-1P 395665-49-3P 395665-51-7P 395665-53-9P 395665-55-1P 395665-57-3P 395665-59-5P 395665-61-9P 395665-63-1P 395665-65-3P 395665-67-5P 395665-69-7P 395665-70-0P 395665-71-1P 395665-72-2P 395665-73-3P 395665-75-5P 395665-76-6P 395665-77-7P 395665-78-8P 395665-79-9P 395665-80-2P 395665-81-3P 395665-91-5P 395665-95-9P 395665-96-0P 395665-98-2P RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (prepn. of fused heterocyclic derivs. as phosphodiesterase inhibitors) RN 395665-35-7 CAPLUS Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-CN

2,3,6,7,12,12a-hexahydro-2,3,3-trimethyl-, (6R,12aR)- (9CI) (CA INDEX

Absolute stereochemistry.

NAME)

RN 395665-36-8 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-3-propanamide, 6-(1,3-benzodioxol-5-yl)-1,2,3,4,6,7,12,12a-octahydro-1,4-dioxo-, (3S,6R,12aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

$$\begin{array}{c|c}
 & O & H \\
 & HN & R \\
 & R & N \\
 & N & R \\
 & N & H
\end{array}$$

RN 395665-41-5 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-3-propanoic acid, 6-(1,3-benzodioxol-5-yl)-1,2,3,4,6,7,12,12a-octahydro-1,4-dioxo-,1-methylethyl ester, (3S,6R,12aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

RN 395665-42-6 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2,3,6,7,12,12a-hexahydro-3-(hydroxymethyl)-, (3R,6R,12aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

RN 395665-43-7 CAPLUS

CN Spiro[cyclohexane-1,3'(4'H)-pyrazino[1',2':1,6]pyrido[3,4-b]indole]1',4'(2'H)-dione, 6'-(1,3-benzodioxol-5-yl)-6',7',12',12'a-tetrahydro-2'methyl-, (6'R,12'aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 395665-47-1 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2,3,6,7,12,12a-hexahydro-3-[2-(1H-tetrazol-5-yl)ethyl]-, (3S,6R,12aR)-(9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 395665-49-3 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 3-(4-aminobutyl)-6-(1,3-benzodioxol-5-yl)-2,3,6,7,12,12a-hexahydro-, (3S,6R,12aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

$$H_2N$$
 (CH₂) $\frac{1}{4}$ $\frac{1}{6}$ $\frac{1}{6}$

RN 395665-51-7 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-3-ethanesulfonamide, 6-(1,3-benzodioxol-5-yl)-1,2,3,4,6,7,12,12a-octahydro-1,4-dioxo-, (3S,6R,12aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 395665-53-9 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-3-hexanoic acid, 6-(1,3-benzodioxol-5-yl)-1,2,3,4,6,7,12,12a-octahydro-2-methyl-1,4-dioxo-, (3S,6R,12aR)- (9CI) (CA INDEX NAME)

$$Me$$
 N
 R
 N
 R

RN 395665-55-1 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-3-acetic acid, 6-(1,3-benzodioxol-5-yl)-1,2,3,4,6,7,12,12a-octahydro-1,4-dioxo-, 1,1-dimethylethyl ester, (3S,6R,12aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 395665-57-3 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2,3,6,7,12,12a-hexahydro-3-[(phenylmethoxy)methyl]-, (3S,6R,12aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN · 395665-59-5 CAPLUS

CN Benzoic acid, 4-[[(3S,6R,12aR)-6-(1,3-benzodioxol-5-yl)-1,2,3,4,6,7,12,12a-octahydro-2-methyl-1,4-dioxopyrazino[1',2':1,6]pyrido[3,4-b]indol-3-yl]methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 395665-61-9 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-3-acetic acid, 6-(1,3-benzodioxol-5-yl)-1,2,3,4,6,7,12,12a-octahydro-1,4-dioxo-, (3S,6R,12aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 395665-63-1 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-3-acetic acid, 6-(1,3-benzodioxol-5-yl)-1,2,3,4,6,7,12,12a-octahydro-1,4-dioxo-, (3R,6R,12aR)- (9CI) (CA INDEX NAME)

RN 395665-65-3 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2,3,6,7,12,12a-hexahydro-3-(1H-pyrazol-1-ylmethyl)-, (6R,12aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 395665-67-5 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 3-(2-aminoethyl)-6-(1,3-benzodioxol-5-yl)-2,3,6,7,12,12a-hexahydro-, (3S,6R,12aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

$$H_2N$$
 H_1N
 H_2N
 H_2N
 H_3
 H_4
 H_4
 H_5
 H_6
 H_7
 H_8
 H_8

RN 395665-69-7 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 3-(aminomethyl)-6-(1,3-benzodioxol-5-yl)-2,3,6,7,12,12a-hexahydro-, (3S,6R,12aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 395665-70-0 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-3-(chloromethyl)-2,3,6,7,12,12a-hexahydro-, (3R,6R,12aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 395665-71-1 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-3-acetamide, 6-(1,3-benzodioxol-5-yl)-N-[[4-(dimethylamino)phenyl]methyl]-1,2,3,4,6,7,12,12a-octahydro-1,4-dioxo-, (3S,6R,12aR)- (9CI) (CA INDEX NAME)

395665-72-2 CAPLUS RN

Piperazine, 1-[[(3S,6R,12aR)-6-(1,3-benzodioxol-5-yl)-1,2,3,4,6,7,12,12a-CN octahydro-1, 4-dioxopyrazino[1',2':1,6]pyrido[3,4-b]indol-3-yl]acetyl]-4methyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN

395665-73-3 CAPLUS
Pyrazino[1',2':1,6]pyrido[3,4-b]indole-3-acetamide, 6-(1,3-benzodioxol-5-CN yl)-1,2,3,4,6,7,12,12a-octahydro-1,4-dioxo-N-[2-(1-pyrrolidinyl)ethyl]-, (6R, 12aR) - (9CI) (CA INDEX NAME)

RN 395665-75-5 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-3-acetic acid, 6-(1,3-benzodioxol-5-yl)-1,2,3,4,6,7,12,12a-octahydro-1,4-dioxo-, heptyl ester, (3S,6R,12aR)-(9CI) (CA INDEX NAME)

Absolute stereochemistry.

Me
$$(CH_2)_6$$
 O H_N R N H

RN 395665-76-6 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-3-acetic acid, 6-(1,3-benzodioxol-5-yl)-1,2,3,4,6,7,12,12a-octahydro-1,4-dioxo-, ethyl ester, (3S,6R,12aR)-(9CI) (CA INDEX NAME)

RN 395665-77-7 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-3-acetic acid, 6-(1,3-benzodioxol-5-yl)-1,2,3,4,6,7,12,12a-octahydro-1,4-dioxo-, 1-methylethyl ester, (3S,6R,12aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 395665-78-8 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-3-acetic acid, 6-(1,3-benzodioxol-5-yl)-1,2,3,4,6,7,12,12a-octahydro-1,4-dioxo-, cyclopentyl ester, (3S,6R,12aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 395665-79-9 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-3-acetic acid, 6-(1,3-benzodioxol-5-yl)-1,2,3,4,6,7,12,12a-octahydro-1,4-dioxo-, 2,2,2-trifluoroethyl ester, (3S,6R,12aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 395665-80-2 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-3-(3,3-dimethyl-2-oxobutyl)-2,3,6,7,12,12a-hexahydro-, (3S,6R,12aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 395665-81-3 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-3-propanoic acid, 6-(1,3-benzodioxol-5-yl)-1,2,3,4,6,7,12,12a-octahydro-1,4-dioxo-, ethyl ester, (3S,6R,12aR)- (9CI) (CA INDEX NAME)

RN 395665-91-5 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2,3,6,7,12,12a-hexahydro-3-(1H-pyrazol-1-ylmethyl)-, (3S,6R,12aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 395665-95-9 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-3-acetamide, 6-(1,3-benzodioxol-5-yl)-1,2,3,4,6,7,12,12a-octahydro-1,4-dioxo-N-[2-(1-pyrrolidinyl)ethyl]-, (3S,6R,12aR)- (9CI) (CA INDEX NAME)

RN 395665-96-0 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2,3,6,7,12,12a-hexahydro-3-(3-pyridinylmethyl)-, (3S,6R,12aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 395665-98-2 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2,3,6,7,12,12a-hexahydro-2,3,3-trimethyl-, (12aR)- (9CI) (CA INDEX NAME)

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REFERENCE COUNT:
                           8
                                  THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS
                                  RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT
L12 ANSWER 8 OF 37 CAPLUS COPYRIGHT 2002 ACS
                           2002:51273 CAPLUS
ACCESSION NUMBER:
DOCUMENT NUMBER:
                           136:96099
                           Treatment of male sexual dysfunction
TITLE:
                           Naylor, Alasdair Mark; Van der Graaf, Pieter Hadewijn;
INVENTOR(S):
                           Wayman, Christopher Peter
                           Pfizer Limited, UK; Pfizer Inc.
PATENT ASSIGNEE(S):
                           PCT Int. Appl., 124 pp.
SOURCE:
                           CODEN: PIXXD2
DOCUMENT TYPE:
                           Patent
                           English
LANGUAGE:
FAMILY ACC. NUM. COUNT: 5
PATENT INFORMATION:
                     KIND DATE
                                               APPLICATION NO. DATE
     PATENT NO.
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                                               ______
     ______
                     A2
A3
                              20020117
                                              WO 2001-IB1187
                                                                  20010702
     WO 2002003995
     WO 2002003995
                              20020418
         W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
              CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
              LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT,
              RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
         RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
                                         US 2001-893585
     US 2002052370 A1
                              20020502
                                                                  20010628
                                               AU 2001-69353
                                                                  20010702
     AU 2001069353
                        A5
                              20020121
                                                             A 20000706
                                            GB 2000-16684
PRIORITY APPLN. INFO.:
                                                              A 20001215
A 20010313
                                            GB 2000-30647
                                            GB 2001-6167
                                            GB 2001-8483 A 20010404
US 2000-219100P P 20000718
                                                              A 20010122
                                            GB 2001-1584
                                            US 2001-274957P P 20010312
                                            WO 2001-IB1187 W 20010702
                           MARPAT 136:96099
OTHER SOURCE(S):
     The present invention relates to the use of neutral endopeptidase
     inhibitors (NEPi) and a combination of NEPi and phosphodiesterase type
     (PDE5) inhibitor for the treatment of male sexual dysfunction, in
     particular MED.
     171596-29-5, IC-351
IT
     RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
     (Biological study); USES (Uses)
         (treatment of male sexual dysfunction using neutral endopeptidase
         inhibitors and their combination with phosphodiesterase type 5
         inhibitors and other agents in relation to inhibition of angiotensin
         converting enzyme)
RN
     171596-29-5 CAPLUS
     Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-
CN
     2,3,6,7,12,12a-hexahydro-2-methyl-, (6R,12aR)- (9CI) (CA INDEX NAME)
Absolute stereochemistry. Rotation (+).
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L12 ANSWER 9 OF 37 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER:

2002:10477 CAPLUS

DOCUMENT NUMBER:

136:85829

TITLE:

preparation of ring fused pyrazinopyridoindole

derivatives as cyclic GMP-specific phosphodiesterase

inhibitors

INVENTOR(S):

Orme, Mark W.; Sawyer, Jason Scott

PATENT ASSIGNEE(S):

Lilly Icos Llc, USA

SOURCE:

PCT Int. Appl., 63 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

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PATENT NO.
                        KIND
                               DATE
                                               APPLICATION NO. DATE
                               _____
                                               ---
                                          WO 2001-US16164 20010517
     WO 2002000658
                               20020103
                       A1
         W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
              CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
              GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
              LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT,
              RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
         RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
              DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
                                               AU 2001-63278
     AU 2001063278
                        A5 20020108
                                                                   20010517
                                            US 2000-213651P P 20000623
PRIORITY APPLN. INFO.:
                                            WO 2001-US16164 W 20010517
```

OTHER SOURCE(S):

MARPAT 136:85829

GΙ

The title compds. I (R = halo, C1-6-alkyl; R1 = a nonocyclic arom. ringAB selected from benzene, thiophene, furan, and pyridine, and an optionally substituted bicyclic ring wherein the fused ring is a 5- or 6-membered ring and optionally with one or two heteroatoms selected from O, S, and N; Y = a 3-, 4-, or 5-membered carbon chain of a 5-, 6-, or 7-membered heteroatom chain of a 5-, 6-, or 7-membered unsubstituted or substituted ring wherein the heteroatom chain contains one or two heteroatoms selected from O, S, N; R2 = nitro, halo, cyano, acyl, acyloxy, C1-4-alkyleneHet, etc.) and their pharmaceutically acceptable salts were prepd. as cyclic GMP-specific phosphodiesterase inhibitors. Thus, N, N'-bis-CBZ-2carboxypiperazine was treated with Me 1,2,3,4-tetrahydro-1-(3,4methylenedioxyphenyl)-9H-pyrido[3,4-b]indole-3-carboxylate and the product cyclized by H2 in presence of Pd-C to give the tetraazaindenoanthracenedione II. The IC50 of II as cyclic GMP-specific phosphodiesterase inhibitor was 1.7 nM.

I

IT 385765-02-6P 385765-03-7P

RL: DMA (Drug mechanism of action); PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

(prepn. of ring fused pyrazinopyridoindole derivs. as cyclic GMP-specific phosphodiesterase inhibitors)

RN 385765-02-6 CAPLUS

CN 6H-Pyrazino[1'',2'':4',5']pyrazino[1',2':1,6]pyrido[3,4-b]indole-6,15(2H)-dione, 13-(1,3-benzodioxol-5-yl)-1,3,4,6a,7,12,13,15a-octahydro-, (6aR,13R)- (9CI) (CA INDEX NAME)

RN 385765-03-7 CAPLUS

CN 3H,5H,14H-Thiazolo[3'',4'':4',5']pyrazino[1',2':1,6]pyrido[3,4-b]indole-5,14-dione, 12-(1,3-benzodioxol-5-yl)-1,5a,6,11,12,14a-hexahydro-, (5aR,12R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

IT 385765-04-8P 385765-05-9P 385765-06-0P

RL: DMA (Drug mechanism of action); PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. of ring fused pyrazinopyridoindole derivs. as cyclic GMP-specific phosphodiesterase inhibitors)

RN 385765-04-8 CAPLUS

CN 6H-Pyrazino[1'',2'':4',5']pyrazino[1',2':1,6]pyrido[3,4-b]indole-6,15(2H)-dione, 13-(1,3-benzodioxol-5-yl)-2-[(3,4-dimethoxyphenyl)acetyl]-1,3,4,6a,7,12,13,15a-octahydro-, (6aR,13R)- (9CI) (CA INDEX NAME)

RN 385765-05-9 CAPLUS

CN 5H,14H-Pyrrolo[1'',2'':4',5']pyrazino[1',2':1,6]pyrido[3,4-b]indole-5,14-dione, 2-amino-12-(1,3-benzodioxol-5-yl)-1,2,3,5a,6,11,12,14a-octahydro-, (5aR,12R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 385765-06-0 CAPLUS

CN 5H-Pyrido[1'',2'':4',5']pyrazino[1',2':1,6]pyrido[3,4-b]indole-10-carboxylic acid, 6-(1,3-benzodioxol-5-yl)-6,8,8a,9,10,11,12,14,14a,15-decahydro-8,14-dioxo-, (6R,14aR)- (9CI) (CA INDEX NAME)

8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS REFERENCE COUNT: RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 10 OF 37 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER:

2002:10475 CAPLUS

DOCUMENT NUMBER:

136:85828

TITLE:

Preparation of pyrazinopyridoindolediones as cyclic

GMP phosphodiesterase inhibitors

INVENTOR(S):

Orme, Mark W.; Sawyer, Jason Scott; Schultze, Lisa M.;

Daugan, Alain Claude-Marie; Gellibert, Francoise

PATENT ASSIGNEE(S):

Lilly Icos LLC, USA

SOURCE:

GΙ

PCT Int. Appl., .81 pp.

DOCUMENT TYPE:

CODEN: PIXXD2

LANGUAGE:

Patent

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

APPLICATION NO. DATE PATENT NO. KIND DATE ----_____ ____ ______ WO 2002000656 A2 20020103 WO 2001-US15935 20010515 W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG AU 2001-61707 20010515 AU 2001061707 A5 20020108 US 2000-213647P P 20000623 PRIORITY APPLN. INFO.: WO 2001-US15935 W 20010515 OTHER SOURCE(S): MARPAT 136:85828

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

The pyrazinopyridoindolediones I (R = halo, C1-6-alkyl; R1 = aryl,AB heteroaryl, amino, R4O, R4CO, R4SO, R4SO2, C1-4-alkylene-CO2R4, C1-4-alkylenehetreroaryl, sulfamoyl, cyano, NO2, CO-C1-4alkyleneheteroaryl, C1-4-alkylene-OR4, etc.; R2 = monocyclic arom. ring consisting of benzene, thiophene, furan, and pyridine, and an optionally substituted bicyclic ring wherein the fused ring is a 5- or 6-membered ring comprised of C and optionally heteroatoms selected from O, S, and N; R3 = H, C1-6-alkyl; R4 = H, alkyl, aryl, heteroaryl, etc.) and their salts and solvates were prepd. as cyclic GMP phosphodiesterase inhibitors. Thus, D-tryptophan Me ester hydrochloride was treated with piperonal to give the carbolinecarboxylate II, which was treated with chloroacetyl chloride followed by cyclization with hydroxylamine-HCl to give the pyrazinopyridoindoledione III. The cyclic GMP phosphodiesterase inhibitor IC50 of III 0.0075 .mu.M.

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385769-78-8P 385769-80-2P 385769-82-4P
ΙT
     385769-84-6P 385769-86-8P 385769-88-0P
     385769-90-4P 385769-94-8P 385769-98-2P
     385770-00-3P 385770-01-4P 385770-03-6P
     385770-04-7P 385770-06-9P 385770-07-0P
     385770-09-2P 385770-11-6P 385770-13-8P
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385770-15-0P 385770-18-3P 385770-20-7P
385770-22-9P 385770-24-1P 385770-26-3P
385770-28-5P 385770-29-6P 385770-30-9P
385770-31-0P 385770-32-1P 385770-34-3P
385770-36-5P 385770-38-7P 385770-40-1P
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385770-46-7P 385770-48-9P 385770-49-0P
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385770-60-5P 385770-62-7P 385770-64-9P
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385770-83-2P 385770-85-4P 385770-89-8P
385770-91-2P 385770-92-3P 385770-93-4P
385770-95-6P 385770-96-7P 385770-98-9P
385770-99-0P 385771-02-8P 385771-03-9P
385771-05-1P 385771-06-2P 385771-08-4P
385771-10-8P
RL: DMA (Drug mechanism of action); PAC (Pharmacological activity); SPN
(Synthetic preparation); THU (Therapeutic use); BIOL (Biological study);
PREP (Preparation); USES (Uses)
   (prepn. of pyrazinopyridoindolediones as cyclic GMP phosphodiesterase
   inhibitors)
385769-78-8 CAPLUS
Benzenesulfonamide, 4-[2-[(6R,12aR)-6-(1,3-benzodioxol-5-y1)-
3,4,6,7,12,12a-hexahydro-1,4-dioxopyrazino[1',2':1,6]pyrido[3,4-b]indol-
2(1H)-yl]ethyl]- (9CI) (CA INDEX NAME)
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Absolute stereochemistry.

RN

CN

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RN 385769-80-2 CAPLUS
CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2,3,6,7,12,12a-hexahydro-2-hydroxy-, (6R,12aR)- (9CI) (CA INDEX NAME)
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RN 385769-82-4 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2,3,6,7,12,12a-hexahydro-2-methoxy-, (6R,12aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 385769-84-6 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 2-amino-6-(1,3-benzodioxol-5-yl)-2,3,6,7,12,12a-hexahydro-, (6R,12aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

$$H_2N$$
 N
 R
 N
 R
 N
 R
 N
 R
 N
 R

RN 385769-86-8 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-

Prepared by Toby Port, STIC, Biotech Library 308-3534

2,3,6,7,12,12a-hexahydro-2-(methylamino)-, (6R,12aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 385769-88-0 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2,3,6,7,12,12a-hexahydro-2-phenyl-, (6R,12aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 385769-90-4 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2-[2-(dimethylamino)ethyl]-2,3,6,7,12,12a-hexahydro-3-methyl-, (6R,12aR)-(9CI) (CA INDEX NAME)

RN 385769-94-8 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2,3,6,7,12,12a-hexahydro-2-(2-hydroxyethyl)-, (6R,12aR)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

RN 385769-98-2 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2,3,6,7,12,12a-hexahydro-2-[3-(4-methyl-1-piperazinyl)propyl]-, (6R,12aR)-(9CI) (CA INDEX NAME)

Absolute stereochemistry.

Me
$$(CH_2)_3$$
 N R N N R N R N R N R N N R N N R N N R

RN 385770-00-3 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2,3,6,7,12,12a-hexahydro-2-[2-(1-piperidinyl)ethyl]-, (6R,12aR)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

RN 385770-01-4 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2-[2-(diethylamino)ethyl]-2,3,6,7,12,12a-hexahydro-, (6R,12aR)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

RN 385770-03-6 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2,3,6,7,12,12a-hexahydro-2-[2-(4-morpholinyl)ethyl]-, (6R,12aR)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

RN 385770-04-7 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2,3,6,7,12,12a-hexahydro-2-[2-(4-morpholinyl)ethyl]-, (6R,12aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 385770-06-9 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2,3,6,7,12,12a-hexahydro-2-[3-(4-morpholinyl)propyl]-, (6R,12aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

Prepared by Toby Port, STIC, Biotech Library 308-3534

RN 385770-07-0 CAPLUS

Relative stereochemistry.

RN 385770-09-2 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-2(1H)-acetamide,
6-(1,3-benzodioxol-5-yl)-3,4,6,7,12,12a-hexahydro-1,4-dioxo-,
(6R,12aR)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

$$H_2N$$
 O
 N
 R
 N
 H

RN 385770-11-6 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 2-(1-azabicyclo[2.2.2]oct-3-yl)-6-(1,3-benzodioxol-5-yl)-2,3,6,7,12,12a-hexahydro-, (6R,12aR)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

RN 385770-13-8 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2-[2-[bis(1-methylethyl)amino]ethyl]-2,3,6,7,12,12a-hexahydro-, (6R,12aR)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

RN 385770-15-0 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-2(1H)-propanoic acid, 6-(1,3-benzodioxol-5-yl)-3,4,6,7,12,12a-hexahydro-1,4-dioxo-, ethyl ester, (6R,12aR)- (9CI) (CA INDEX NAME)

RN 385770-18-3 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2,3,6,7,12,12a-hexahydro-2-(3-methoxypropyl)-, (6R,12aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 385770-20-7 CAPLUS

CN Acetamide, N-[2-[(6R,12aR)-6-(1,3-benzodioxol-5-yl)-3,4,6,7,12,12a-hexahydro-1,4-dioxopyrazino[1',2':1,6]pyrido[3,4-b]indol-2(1H)-yl]ethyl]-(9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 385770-22-9 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2,3,6,7,12,12a-hexahydro-2-[3-(2-oxo-1-pyrrolidinyl)propyl]-, (6R,12aR)-(9CI) (CA INDEX NAME)

RN 385770-24-1 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-2(1H)-acetamide, 6-(1,3-benzodioxol-5-yl)-3,4,6,7,12,12a-hexahydro-1,4-dioxo-N-phenyl-, (6R,12aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 385770-26-3 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2,3,6,7,12,12a-hexahydro-2-(2-methoxyethyl)-, (6R,12aR)- (9CI) (CA INDEX NAME)

RN 385770-28-5 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-2(1H)-acetamide, 6-(1,3-benzodioxol-5-yl)-3,4,6,7,12,12a-hexahydro-1,4-dioxo-N-(phenylmethyl)-, (6R,12aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 385770-29-6 CAPLUS

CN Piperidine, 1-[[(6R,12aR)-6-(1,3-benzodioxol-5-yl)-3,4,6,7,12,12a-hexahydro-1,4-dioxopyrazino[1',2':1,6]pyrido[3,4-b]indol-2(1H)-yl]acetyl]-(9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 385770-30-9 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2,3,6,7,12,12a-hexahydro-2-[3-(1H-imidazol-1-yl)propyl]-, (6R,12aR)- (9CI) (CA INDEX NAME)

RN 385770-31-0 CAPLUS

Pyrazino[1',2':1,6]pyrido[3,4-b]indole-2(1H)-propanamide, CN 6-(1,3-benzodioxol-5-yl)-N-cyclohexyl-3,4,6,7,12,12a-hexahydro-1,4-dioxo-, (6R, 12aR) - (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN

385770-32-1 CAPLUS
Pyrazino[1',2':1,6]pyrido[3,4-b]indole-2(1H)-butanamide, CN 6-(1,3-benzodioxol-5-yl)-N-butyl-3,4,6,7,12,12a-hexahydro-N-methyl-1,4dioxo-, (6R,12aR)- (9CI) (CA INDEX NAME)

$$\begin{array}{c} Me \\ N \\ N \\ O \end{array} \qquad \begin{array}{c} O \\ R \\ N \\ R \\ N \\ H \end{array}$$

RN 385770-34-3 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-2(1H)-butanamide, 6-(1,3-benzodioxol-5-yl)-N-cyclohexyl-3,4,6,7,12,12a-hexahydro-1,4-dioxo-, (6R,12aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 385770-36-5 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-2(1H)-propanoic acid, 6-(1,3-benzodioxol-5-yl)-3,4,6,7,12,12a-hexahydro-1,4-dioxo-, (6R,12aR)-(9CI) (CA INDEX NAME)

RN 385770-38-7 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2,3,6,7,12,12a-hexahydro-2-[(tetrahydro-2-furanyl)methyl]-, (6R,12aR)-rel-(9CI) (CA INDEX NAME)

Relative stereochemistry.

RN 385770-40-1 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-2(1H)-acetamide, 6-(1,3-benzodioxol-5-yl)-3,4,6,7,12,12a-hexahydro-1,4-dioxo-N-4-pyridinyl-, (6R,12aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 385770-41-2 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2-(3-ethoxypropyl)-2,3,6,7,12,12a-hexahydro-, (6R,12aR)- (9CI) (CA INDEX NAME)

RN 385770-43-4 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2,3,6,7,12,12a-hexahydro-2-[2-(2-hydroxyethoxy)ethyl]-, (6R,12aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 385770-44-5 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2,3,6,7,12,12a-hexahydro-2-[(2R)-2-hydroxypropyl]-, (6R,12aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 385770-46-7 CAPLUS

CN Piperazine, 1-[[(6R,12aR)-6-(1,3-benzodioxol-5-yl)-3,4,6,7,12,12a-hexahydro-1,4-dioxopyrazino[1',2':1,6]pyrido[3,4-b]indol-2(1H)-yl]acetyl]-4-phenyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 385770-48-9 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-2(1H)-acetamide, 6-(1,3-benzodioxol-5-yl)-3,4,6,7,12,12a-hexahydro-N-methyl-1,4-dioxo-N-phenyl-, (6R,12aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 385770-49-0 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 2-[2-(3-azabicyclo[3.2.2]non-3-yl)ethyl]-6-(1,3-benzodioxol-5-yl)-2,3,6,7,12,12a-hexahydro-, (6R,12aR)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

RN 385770-50-3 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 2-(1H-benzimidazol-2-ylmethyl)-6-(1,3-benzodioxol-5-yl)-2,3,6,7,12,12a-hexahydro-, (6R,12aR)-(9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 385770-52-5 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2,3,6,7,12,12a-hexahydro-2-[2-(4-methyl-1-piperazinyl)ethyl]-, (6R,12aR)-(9CI) (CA INDEX NAME)

RN 385770-54-7 CAPLUS

CN Benzoic acid, 4-[[(6R,12aR)-6-(1,3-benzodioxol-5-yl)-3,4,6,7,12,12a-hexahydro-1,4-dioxopyrazino[1',2':1,6]pyrido[3,4-b]indol-2(1H)-yl]methyl]-(9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 385770-56-9 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2-[[4-(dimethylamino)phenyl]methyl]-2,3,6,7,12,12a-hexahydro-, (6R,12aR)-(9CI) (CA INDEX NAME)

Absolute stereochemistry.

Prepared by Toby Port, STIC, Biotech Library 308-3534

RN 385770-57-0 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2-[[4-(dimethylamino)phenyl]methyl]-2,3,6,7,12,12a-hexahydro-3-methyl-, (6R,12aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 385770-58-1 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2-[2-[(2R,6S)-2,6-dimethyl-4-morpholinyl]ethyl]-2,3,6,7,12,12a-hexahydro-, (6S,12aS)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

RN 385770-60-5 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2-[2-[(2R,6S)-2,6-dimethyl-4-morpholinyl]ethyl]-2,3,6,7,12,12a-hexahydro-, (6S,12aR)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

RN 385770-62-7 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2,3,6,7,12,12a-hexahydro-2-[2-(1H-imidazol-1-yl)ethyl]-, (6R,12aR)-rel-(9CI) (CA INDEX NAME)

Relative stereochemistry.

RN 385770-64-9 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2,3,6,7,12,12a-hexahydro-2-[2-(5-methyl-1H-imidazol-1-yl)ethyl]-, (6R,12aR)- (9CI) (CA INDEX NAME)

RN 385770-66-1 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 2-[(4-aminophenyl)methyl]-6-(1,3-benzodioxol-5-yl)-2,3,6,7,12,12a-hexahydro-, (6R,12aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 385770-68-3 CAPLUS

CN Methanesulfonamide, N-[4-[[(6R,12aR)-6-(1,3-benzodioxol-5-y1)-3,4,6,7,12,12a-bexahydro-1,4-dioxopyrazino[1',2':1,6]pyrido[3,4-b]indol-2(1H)-yl]methyl]phenyl]-1,1,1-trifluoro-(9CI) (CA INDEX NAME)

Absolute stereochemistry.

Prepared by Toby Port, STIC, Biotech Library 308-3534

RN 385770-70-7 CAPLUS

CN Benzenesulfonamide, 4-[[(6R,12aR)-6-(1,3-benzodioxol-5-yl)-3,4,6,7,12,12a-hexahydro-1,4-dioxopyrazino[1',2':1,6]pyrido[3,4-b]indol-2(1H)-yl]methyl]-(9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 385770-72-9 CAPLUS

CN Benzonitrile, 4-[[(6R,12aR)-6-(1,3-benzodioxol-5-yl)-3,4,6,7,12,12a-hexahydro-1,4-dioxopyrazino[1',2':1,6]pyrido[3,4-b]indol-2(1H)-yl]methyl]-(9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 385770-73-0 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-2(1H)-acetonitrile, 6-(1,3-benzodioxol-5-yl)-3,4,6,7,12,12a-hexahydro-1,4-dioxo-, (6R,12aR)-(9CI) (CA INDEX NAME)

RN 385770-75-2 CAPLUS

CN Benzoic acid, 4-[[(6R,12aR)-6-(1,3-benzodioxol-5-yl)-3,4,6,7,12,12a-hexahydro-1,4-dioxopyrazino[1',2':1,6]pyrido[3,4-b]indol-2(1H)-yl]methyl]-, methyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 385770-76-3 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2,3,6,7,12,12a-hexahydro-2-[2-(1-methyl-2-pyrrolidinyl)ethyl]-, (6R,12aR)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

RN 385770-77-4 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2,3,6,7,12,12a-hexahydro-2-[2-(1H-imidazol-4-yl)ethyl]-, (6R,12aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 385770-78-5 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2-[[4-[(dimethylamino)methyl]phenyl]methyl]-2,3,6,7,12,12a-hexahydro-, (6R,12aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 385770-79-6 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 2-[2-(4-aminophenyl)ethyl]-6-(1,3-benzodioxol-5-yl)-2,3,6,7,12,12a-hexahydro-, (6R,12aR)- (9CI) (CA INDEX NAME)

RN 385770-80-9 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-2(1H)-acetic acid, 6-(1,3-benzodioxol-5-yl)-3,4,6,7,12,12a-hexahydro-1,4-dioxo-, phenylmethyl ester, (6R,12aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 385770-82-1 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-2(1H)-acetic acid, 6-(1,3-benzodioxol-5-yl)-3,4,6,7,12,12a-hexahydro-1,4-dioxo-, (6R,12aR)-(9CI) (CA INDEX NAME)

RN 385770-83-2 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2-[3-(3,5-dimethyl-1H-pyrazol-1-yl)propyl]-2,3,6,7,12,12a-hexahydro-, (6R,12aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 385770-85-4 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-2(1H)-propanoic acid, 6-(1,3-benzodioxol-5-yl)-3,4,6,7,12,12a-hexahydro-1,4-dioxo-, 1,1-dimethylethyl ester, (6R,12aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 385770-89-8 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2,3,6,7,12,12a-hexahydro-2-[2-(1H-pyrazol-1-yl)ethyl]-, (6R,12aR)- (9CI) (CA INDEX NAME)

RN 385770-91-2 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2,3,6,7,12,12a-hexahydro-2-[(3-nitrophenyl)methyl]-, (6R,12aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 385770-92-3 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 2-[(3-aminophenyl)methyl]-6-(1,3-benzodioxol-5-yl)-2,3,6,7,12,12a-hexahydro-, (6R,12aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 385770-93-4 CAPLUS

CN Methanesulfonamide, N-[3-[[(6R,12aR)-6-(1,3-benzodioxol-5-yl)-3,4,6,7,12,12a-hexahydro-1,4-dioxopyrazino[1',2':1,6]pyrido[3,4-b]indol-2(1H)-yl]methyl]phenyl]-1,1,1-trifluoro-(9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 385770-95-6 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2,3,6,7,12,12a-hexahydro-2-[3-(1H-pyrazol-1-yl)propyl]-, (6R,12aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 385770-96-7 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2,3,6,7,12,12a-hexahydro-2-[[4-(phenylmethoxy)phenyl]methyl]-, (6R,12aR)-(9CI) (CA INDEX NAME)

RN 385770-98-9 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2-[[4-[2-(dimethylamino)ethoxy]phenyl]methyl]-2,3,6,7,12,12a-hexahydro-, (6R,12aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 385770-99-0 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2,3,6,7,12,12a-hexahydro-2-[2-(1H-1,2,4-triazol-1-yl)ethyl]-, (6R,12aR)-(9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 385771-02-8 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-b)enzodioxol-5-yl)-2,3,6,7,12,12a-hexahydro-2-[[3-(methylamino)-5-nitrophenyl]methyl]-, (6R, 12aR) - (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 385771-03-9 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-2(1H)-acetamide, 6-(1,3-benzodioxol-5-yl)-3,4,6,7,12,12a-hexahydro-N-(4-methyl-1piperazinyl)-1,4-dioxo-, (6R,12aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN

385771-05-1 CAPLUS
Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-CN 2,3,6,7,12,12a-hexahydro-2-[(1-methyl-1H-benzimidazol-5-yl)methyl]-, (6R, 12aR) - (9CI) (CA INDEX NAME)

RN 385771-06-2 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-2(1H)-acetic acid, 6-(1,3-benzodioxol-5-yl)-3,4,6,7,12,12a-hexahydro-1,4-dioxo-, 1,1-dimethylethyl ester, (6R,12aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 385771-08-4 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-2(1H)-acetic acid, 6-(1,3-benzodioxol-5-yl)-3,4,6,7,12,12a-hexahydro-1,4-dioxo-, methyl ester, (6R,12aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 385771-10-8 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-2(1H)-acetic acid, 6-(1,3-benzodioxol-5-yl)-3,4,6,7,12,12a-hexahydro-1,4-dioxo-, octyl ester, (6R,12aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

Me
$$(CH_2)_{7}$$
 O N R N H

L12 ANSWER 11 OF 37 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 2001:924320 CAPLUS

DOCUMENT NUMBER: 136:31728

TITLE: Daily treatment for erectile dysfunction using a

phosphodiesterase 5 (PDE5) inhibitor

INVENTOR(S): Whitaker, John S.; Saenz de Tejada, Inigo; Ferguson,

Kenneth M.

PATENT ASSIGNEE(S): USA

SOURCE: U.S. Pat. Appl. Publ., 12 pp., Cont.-in-part of U.S.

Ser. No. 558,911. CODEN: USXXCO

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 3

PATENT INFORMATION:

PATENT NO.	KIND DATE		APPLICATION NO.	DATE				
US 2001053780	A1	20011220	US 2001-834442	20010413				
EP 1173181	A2	20020123	EP 2000-926367	20000426				
R: AT, BE,	CH, DE	, DK, ES,	FR, GB, GR, IT, LI, LU,	NL, SE, MC, PT,				
IE, SI,	LT, LV	, FI, RO						
NO 2001005275	A	20011206	NO 2001-5275	20011029				
PRIORITY APPLN. INFO	. :		US 1999-132036P P	19990430				
			US 2000-558911 A2	20000426				
			WO 2000-US11129 W	20000426				

The invention provides phosphodiesterase (PDE) enzyme inhibitors and to their use in pharmaceutical articles of manuf. In particular, the invention provides potent inhibitors of cyclic guanosine 3',5'-monophosphate specific phosphodiesterase type 5 (PDE5) that, when incorporated into a pharmaceutical product at about 1-10 mg unit dosage, are useful for the treatment of sexual dysfunction by daily administration of the PDE5 inhibitor. The articles of manuf. described are characterized by PDE5 inhibition, and accordingly, provide a benefit in therapeutic areas where inhibition of PDE5 is desired, esp. erectile dysfunction, with minimization or elimination of adverse side effects resulting from inhibition of other phosphodiesterase enzymes and with an improvement of vascular conditioning.

IT 171596-29-5 171596-40-0

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(phosphodiesterase 5 inhibitor for daily treatment for erectile dysfunction)

RN 171596-29-5 CAPLUS

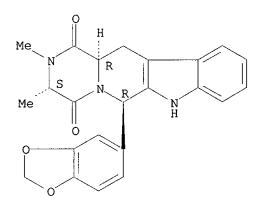
CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2,3,6,7,12,12a-hexahydro-2-methyl-, (6R,12aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

RN 171596-40-0 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2,3,6,7,12,12a-hexahydro-2,3-dimethyl-, (3S,6R,12aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



L12 ANSWER 12 OF 37 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 2001:916407 CAPLUS

DOCUMENT NUMBER: 136:53755

TITLE: Synthesis of nitrosated and nitrosylated

(hetero)cyclic phosphodiesterase inhibitors used in

treatment of sexual dysfunction

INVENTOR(S): Garvey, David S.; Saenz de Tejada, Inigo; Earl,

Richard A.; Khanapure, Subhash P.

PATENT ASSIGNEE(S): Nitromed, Inc., USA

SOURCE: U.S., 117 pp., Cont.-in-part of U.S. 5,958,926.

CODEN: USXXAM

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 3 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO). DATE	
US 6331543	B1	20011218	US 1999-387727	19990901	
US 5874437	A	19990223	US 1996-740764	19961101	
WO 9819672	A1	19980514	WO 1997-US1987	0 19971031	
W: AU, CA,	JP, US				
RW: AT, BE,	CH, DE	, DK, ES,	FI, FR, GB, GR, IE,	IT, LU, MC,	NL, PT, SE
US 5958926	A	19990928	US 1998-145142	19980901	
US 2002019405	A1	20020214	US 2001-941691	20010830	
PRIORITY APPLN. INFO).:		US 1996-740764	A2 19961101	
			WO 1997~US19870	A2 19971031	
			US 1998-145142	A2 19980901	
			US 1999-387727	A1 19990901	
OTHER SOURCE (S) .	MΛ	DDAT 136.5	3755		

OTHER SOURCE(S):

MARPAT 136:53755

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

Compds. I-V, derivs. thereof, and certain substituted Ph and phthalzaine AR derivs. were claimed [D2 = H, alkyl, D; D = NO, NO2, alkyl, acyl, phosphoryl, silyl, etc.; A1-3 comprise the other subunits of a 5- or 6-membered monocyclic arom. ring; R8 = H, (halo)alkyl; p = 1-10; R24 = H, cyclohexyl, piperidinyl, etc., with the proviso that at least one of Al-3, J, or R24 contains T-Q or D; T = bond, O, S(O), amino; Q = NO, NO2; D1 = Dor H; R37 = (hetero)aryl; R38 = H, halo, alkyl; G1 = alkyl, alkenyl or is part of a ring fused to the piperidine moiety of III; G4 = O, S; R40 = H, alkyl, haloalkyl, halo, etc.; R41 = alkyl, hydroxyalkyl, alkylcarboxy, etc.; R42 = aryl, alkylaryl, alkyloxyaryl; T1 = alkyl, oxyalkyl, thioalkyl, aminoalkyl]. Two synthetic examples were provided. E.g., the S-nitroso deriv. of the 3-mercapto-3-methylbutyric acid ester of dipyridamole (VI) was prepd. in 4 steps from dipyridamole in 3.5% overall yield. VI at doses of 10 and 30 .mu.M was more efficacious in relaxing phenylephrine-induced tissue contraction than was the known phosphodiesterase inhibitor, dipyridamole. The present invention describes novel (nitrosated/nitrosylated) phosphodiesterase inhibitors, and compns. contg. at least one (nitrosated/nitrosylated) phosphodiesterase inhibitor, and, optionally, one or more compds. that donate, transfer or release NO, elevate endogenous levels of endothelium-derived relaxing factor, stimulate endogenous synthesis of NO, or is a substrate for nitric oxide synthase and/or one or more vasoactive agents. The present invention also provides methods for treating or preventing sexual dysfunctions in males and females, for enhancing sexual responses in males and females, and for treating or preventing diseases induced by the increased metab. of cGMP, such as hypertension, pulmonary hypertension, etc.

IT 171596-29-5D, ICOS 351, nitroso derivs.

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (synthesis of nitrosated and nitrosylated (hetero)cyclic phosphodiesterase inhibitors used in treatment of sexual dysfunction) 171596-29-5 CAPLUS

RN 171596-29-5 CAPLUS CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2,3,6,7,12,12a-hexahydro-2-methyl-, (6R,12aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

REFERENCE COUNT: 86 THERE ARE 86 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 13 OF 37 CAPLUS COPYRIGHT 2002 ACS ACCESSION NUMBER: 2001:904172 CAPLUS

DOCUMENT NUMBER: 136:20091

TITLE: Preparation of tetracyclic diketopiperazine compounds

as PDE5 inhibitor

INVENTOR(S): Orme, Mark W.; Daugan, Alain Claude-Marie; Bombrun,

Agnes

PATENT ASSIGNEE(S): Lilly Icos Llc, USA SOURCE: PCT Int. Appl., 55 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.			KI	KIND DATE				APPLICATION NO.					DATE					
	WO 2001	WO 2001094347			A1 20011213			WO 2001-US15937				37	20010515					
	W:	ΑE,	AG,	AL,	AM,	AT,	AU,	ΑZ,	BA,	BB,	BG,	BR,	BY,	BZ,	CA,	CH,	CN,	
		CO,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	ES,	FI,	GB,	GD,	GE,	GH,	
		GM,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	ΚE,	KG,	ΚP,	KR,	ΚZ,	LC,	LK,	LR,	
		LS,	LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	ΜZ,	NO,	ΝZ,	PL,	PT,	
		RO,	RU,	SD,	SE,	SG,	SI,	SK,	SL,	ТJ,	TM,	TR,	TT,	ΤZ,	UA,	UG,	US,	
														ТJ,				
	RW:	GH,	GM,	ΚE,	LS,	MW,	ΜZ,	SD,	SL,	SZ,	TZ,	UG,	ZW,	ΑT,	BE,	CH,	CY,	
		DE,	DK,	ES,	FI,	FR,	GB,	GR,	ΙE,	ΙΤ,	LU,	MC,	NL,	PT,	SE,	TR,	BF,	
		ВJ,	CF,	CG,	CI,	CM,	GΑ,	GN,	GW,	ML,	MR,	ΝE,	SN,	TD,	TG			
PRIORITY APPLN. INFO.:							1	US 2	000-	2103	24P	Ρ	20000	0608				
OTHER SOURCE(S):			MARPAT 136:20091															
	GT																	

AB The title compds. I [R1 = C1-6 alkyl; R2 = H, Me] were prepd. and use of the compds. as PDE5 inhibitors was described. E.g., (6R,12aR)-6-(3,4-dihydroxyphenyl)-2-methyl-2,3,6,7,12,12a-hexahydropyrazino[1',2':1,6]pyrid o[3,4-b]indole-1,4-dione was prepd. I may be used for male erectile dysfunction or female arousal disorder.

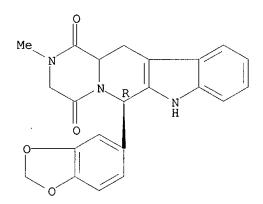
IT 378788-17-1P

RL: IMF (Industrial manufacture); PAC (Pharmacological activity); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation) (prepn. of tetracyclic diketopiperazine compds. as PDE5 inhibitor)

RN 378788-17-1 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2,3,6,7,12,12a-hexahydro-2-methyl-, (6R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 14 OF 37 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 2001:904168 CAPLUS

DOCUMENT NUMBER: 136:20090

TITLE: Preparation of cyclic guanosine monophosphate specific

phosphodiesterase inhibiting

heterocyclylpyrazinopyridoindolediones for treatment of cardiovascular disorders and erectile disfunction Orme, Mark W.; Sawyer, Jason Scott; Daugan, Alain

INVENTOR(S): Orme, Mark

Claud-Marie

PATENT ASSIGNEE(S): Lilly Icos LLC, USA SOURCE: PCT Int. Appl., 103 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent English

LANGUAGE:

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

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PATENT NO.
                  KIND DATË
                                         APPLICATION NO. DATE
                          20011213 WO 2001-US15936 20010515
                    ____
                          -----
    _____
    WO 2001094345
                    A2
        W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
            CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
            GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
            LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT,
            RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US,
            UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
        RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
            DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,
            BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
                                      US 2000-210137P P 20000607
PRIORITY APPLN. INFO.:
                        MARPAT 136:20090
OTHER SOURCE(S):
GΙ
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- * STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY AVAILABLE VIA OFFLINE PRINT *
- The pyrazinopyridoindolediones I [R1 = H, alkyl, alkenyl, alkynyl, AB haloalkyl, cycloalkyl, heterocycloalkyl, etc; R2 = (un)substituted Ph, thienyl, furanyl, pyridyl, bicyclic ring optionally contg. O, S, N hetero atoms, e.g. benzodioxoly1; R3 = H, alky1; R4 = ary1, heteroary1, cycloalkyl, acyl, acyloxy, alkoxycarbonyl, aminoalkyl, carbamoyl, alkoxy, amino, acylamino, nitro, cyano, alkylthio etc.; R5 = H, halo, alkyl; R4R5 = 5-, 6-, 7-membered ring optionally contg. O, S, N atoms; m = 1, 2, 3and their diastereoisomers and pharmaceutically acceptable salts were prepd., possessed cGMP specific phosphodiesterase inhibiting activity, and were useful in the treatment of various cardiovascular disorders, erectile disfunction, and female sexual arousal disorder. Thus, the Me ester of 5-hydroxytryptophan condensed with piperonal in trifluoroacetic acid/CH2Cl2 to give the [(methylenedioxy)phenyl]pyridoindole II which was acylated by C1CH2COC1 and then cyclized with MeNH2 to give the [(methylenedioxy)phenyl]hexahydropyrazinopyridoindoledione III that inhibited cGMP specific phosphodiesterase in vitro with an IC50 of 48.1
- IT 379234-97-6P

RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses) (prepn. of (benzodioxolyl)pyrazinopyridoindolediones with cGMP-specific phosphodiesterase inhibiting activity useful in treating cardiovascular, erectile, and female sexual arousal disorders)

379234-97-6 CAPLUS

RN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-9-carboxylic acid, CN 6-(1,3-benzodioxol-5-yl)-1,2,3,4,6,7,12,12a-octahydro-2-methyl-1,4-dioxo-, methyl ester, (6R,12aR)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

IT 379234-74-9P 379234-78-3P 379234-82-9P 379234-88-5P 379234-98-7P 379235-06-0P 379235-11-7P 379235-12-8P 379235-13-9P 379235-14-0P 379235-15-1P 379235-16-2P 379235-17-3P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. of (benzodioxolyl)pyrazinopyridoindolediones with cGMP-specific phosphodiesterase inhibiting activity useful in treating cardiovascular, erectile, and female sexual arousal disorders)

RN 379234-74-9 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2,3,6,7,12,12a-hexahydro-10-hydroxy-2-methyl-, (6R,12aR)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

RN 379234-78-3 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2,3,6,7,12,12a-hexahydro-10-methoxy-2-methyl-, (6R,12aR)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

RN 379234-82-9 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2,3,6,7,12,12a-hexahydro-10-methoxy-2-methyl-, (6R,12aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

RN 379234-88-5 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2,3,6,7,12,12a-hexahydro-2-methyl-9-phenyl-, (6R,12aR)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

RN 379234-98-7 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-9-carboxylic acid, 6-(1,3-benzodioxol-5-yl)-1,2,3,4,6,7,12,12a-octahydro-2-methyl-1,4-dioxo-, (6R,12aS)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

RN 379235-06-0 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-9-carbonitrile, 6-(1,3-benzodioxol-5-yl)-1,2,3,4,6,7,12,12a-octahydro-2-methyl-1,4-dioxo-, (6R,12aR)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

RN 379235-11-7 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2,3,6,7,12,12a-hexahydro-2-methyl-8-(phenylmethoxy)-, (6R,12aR)-rel-(9CI) (CA INDEX NAME)

Relative stereochemistry.

RN 379235-12-8 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2,3,6,7,12,12a-hexahydro-9-hydroxy-2-methyl-, (6R,12aR)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

RN 379235-13-9 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2,3,6,7,12,12a-hexahydro-2-methyl-9-(phenylmethoxy)-4, (6R,12aR)-rel-(9CI) (CA INDEX NAME)

Relative stereochemistry.

RN 379235-14-0 CAPLUS

CN Benzo[g]pyrazino[1',2':1,6]pyrido[3,4-b]indole-8,11-dione, 13-(1,3-benzodioxol-5-yl)-7,7a,9,10,13,14-hexahydro-9-methyl-, (7aR,13R)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

RN 379235-15-1 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 9-(aminomethyl)-6-(1,3-benzodioxol-5-yl)-2,3,6,7,12,12a-hexahydro-2-methyl-, (6R,12aR)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

RN 379235-16-2 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2,3,6,7,12,12a-hexahydro-2-methyl-10-phenyl-, (6R,12aR)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

RN 379235-17-3 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2,3,6,7,12,12a-hexahydro-8-hydroxy-2-methyl-, (6R,12aR)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

IT 379234-87-4P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(prepn. of (benzodioxolyl)pyrazinopyridoindolediones with cGMP-specific phosphodiesterase inhibiting activity useful in treating cardiovascular, erectile, and female sexual arousal disorders)

RN 379234-87-4 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-9-bromo-2,3,6,7,12,12a-hexahydro-2-methyl-, (6R,12aR)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

L12 ANSWER 15 OF 37 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 2001:798055 CAPLUS

DOCUMENT NUMBER: 135:339295

TITLE: Daily treatment for erectile dysfunction using a

phosphodiesterase 5 (PDE5) inhibitor

INVENTOR(S): Whitaker, John S.; Saenz de Tejada, Inigo; Ferguson,

Kenneth M.

PATENT ASSIGNEE(S): Lilly Icos LLC, USA SOURCE: PCT Int. Appl., 48 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 3

PATENT INFORMATION:

	PAT	TENT	NO.		KI	ЙD	DATE			A		CATI		o.	DATE			
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		W:					AT,			BA,	BB,	ВG,	BR,	BY,	ΒZ,	CA,	CH,	CN,
							DE,											
							IN,											
			LT,	LU,	LV,	ΜA,	MD,	MG,	MK,	MN,	MW,	MX,	MZ,	NO,	ΝZ,	PL,	PT,	RO,
			RU,	SD,	SE,	SG,	SI,	SK,	SL,	ТJ,	TM,	TR,	TT,	ΤZ,	UA,	UG,	US,	UZ,
							AM,											
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						CI,	CM,	GA,	GN,	GW,	ML,	MR,	NE,	SN,	TD,	TG		
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	adr	ninis	trat	ion	of t	he F	DE5	ne treatment of sexual dysfunction by daily E5 inhibitor. The articles of manuf. are										
	cha	ract	eriz	ed b	v PD	E5 i	inhibition, and accordingly prov							rovi	vide a benefit in			
	therapeutic areas where i								e inhibition of PDE5 is desired, esp. erectile									
	dysfunction, with minimi							mization or elimination of adverse side effects										
						nhibition of other phosphodiesterase enzymes and with an												
						vascular conditioning.												

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES

(Uses)

(phosphodiesterase 5 inhibitor for daily treatment for sexual dysfunction)

RN 171596-29-5 CAPLUS

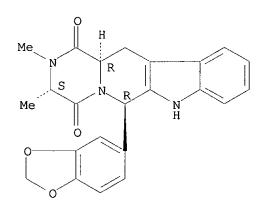
CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2,3,6,7,12,12a-hexahydro-2-methyl-, (6R,12aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

RN 171596-40-0 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2,3,6,7,12,12a-hexahydro-2,3-dimethyl-, (3S,6R,12aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



L12 ANSWER 16 OF 37 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 2001:713326 CAPLUS

DOCUMENT NUMBER: 135:272990

TITLE: Preparation of piperazinylcarbonylaminomethylcarbonylp

iperidines as melanocortin-4 receptor agonists

INVENTOR(S): Palucki, Brenda L.; Barakat, Khaled J.; Guo, Liangqin;

Lai, Yingjie; Nargund, Ravi P.; Park, Min K.; Pollard,

Patrick G.; Sebhat, Iyassu K.; Ye, Zhixiong

PATENT ASSIGNEE(S): Merck + Co., Inc., USA

SOURCE: PCT Int. Appl., 220 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

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PATENT NO.
                     KIND DATE
                                         APPLICATION NO. DATE
                          20010927 WO 2001-US8935 20010320
     _____
                     ____
    WO 2001070708
                    A1
        W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
            CO, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM,
            HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT,
            LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU,
            SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN,
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        RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
            DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,
            BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
    US 2002019523
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                         20020214
                                         US 2001-812965
                                                         20010320
PRIORITY APPLN. INFO.:
                                      US 2000-191442P P 20000323
                                      US 2000-242265P P 20001020
OTHER SOURCE(S):
                       MARPAT 135:272990
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$$\begin{array}{c|c} X & & \\ X & & \\ Y & & \\ & &$$

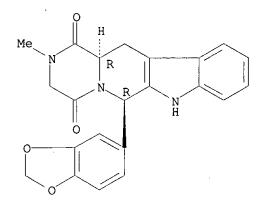
Title compds. [I; Q = (substituted) (fused) piperazinyl, morpholinyl, thiomorpholinyl; R1 = H, alkyl, (substituted) cycloalkyl(alkyl), aryl(alkyl), heteroaryl(alkyl), etc.; X = (substituted) alkyl, cycloalkyl(alkyl), aryl(alkyl), heteroaryl(alkyl), heterocyclyl(alkyl), cyano(alkyl), aminosulfonyl(alkyl), etc.; Y = H, alkyl, cycloalkyl(alkyl), (substituted) aryl(alkyl), heterocyclyl(alkyl), heteroaryl(alkyl)], were prepd. as melanocortin-4 receptor (MC-4R) agonists. Thus, capsule formulations contg. title compd. (II) were prepd. Representative I activated MC-4R with IC50<1 .mu.M. I are claimed for the treatment of obesity, diabetes, and sexual dysfunction including erectile dysfunction and female sexual dysfunction.

IT **171596-29-5**, IC-351

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (combination therapy; prepn. of piperazinylcarbonylaminomethylcarbonylp iperidines as melanocortin-4 receptor agonists)

RN 171596-29-5 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2,3,6,7,12,12a-hexahydro-2-methyl-, (6R,12aR)- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 17 OF 37 CAPLUS COPYRIGHT 2002 ACS ACCESSION NUMBER: 2001:559496 CAPLUS

DOCUMENT NUMBER: 135:117266

TITLE: Treatment of sexual function disorders with

phosphodiesterase 4 inhibitors as monotherapy or in combination with other phosphodiesterase inhibitors or

adenylate cyclase activators

PATENT ASSIGNEE(S): Stief, Christian, Germany

SOURCE: Ger. Offen., 4 pp. CODEN: GWXXBX

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE

DE 10004289 A1 20010802 DE 2000-10004289 20000201

AB The invention provides a medicament contg. a phosphodiesterase 4 inhibitor as monotherapy or in combination with other phosphodiesterase inhibitors or adenylate cyclase activators for the treatment of s sexual function disorders.

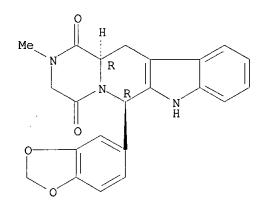
IT **171596-29-5**, IC 351

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(phosphodiesterase 4 inhibitors as monotherapy or in combination with other phosphodiesterase inhibitors or adenylate cyclase activators for treatment of sexual function disorders)

RN 171596-29-5 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2,3,6,7,12,12a-hexahydro-2-methyl-, (6R,12aR)- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 18 OF 37 CAPLUS COPYRIGHT 2002 ACS ACCESSION NUMBER: 2001:541505 CAPLUS

DOCUMENT NUMBER: 135:132460

TITLE: Treatment of sexual function disorders with guanylate

cyclase activators, optionally in combination with

phosphodiesterase inhibitors

INVENTOR(S): Stief, Christian; Magerl, Hans-Jurgen; Kuthe, Andrea;

Uckert, Stefan; Becker, Armin; Farssmann, Wolf Georg;

Jones, Udo

PATENT ASSIGNEE(S): Germany

SOURCE: Ger. Offen., 6 pp.

CODEN: GWXXBX

DOCUMENT TYPE: Patent LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE

DE 10002200 A1 20010726 DE 2000-10002200 20000119

AB Medicaments contg. activators of guanylate cyclase and their variants, individually or in combination with phosphodiesterase inhibitors, are provided for the treatment of sexual function disorders. e.g. erectile dysfunction.

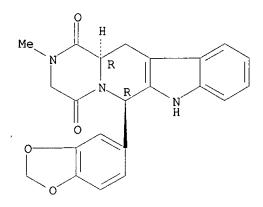
IT 171596-29-5, IC 351

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(guanylate cyclase activators, optionally in combination with phosphodiesterase inhibitors, for treatment of sexual function disorders)

RN 171596-29-5 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2,3,6,7,12,12a-hexahydro-2-methyl-, (6R,12aR)- (9CI) (CA INDEX NAME)



L12 ANSWER 19 OF 37 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER:

2001:338071 CAPLUS

DOCUMENT NUMBER:

134:336223

TITLE:

Treatment of pulmonary hypertension with sildenafil or

other phosphodiesterase V inhibitor

INVENTOR(S):

Butrous, Ghazwan Saleem; Lukas, Timothy; Machin, Ian

Pfizer Limited, UK; Pfizer Inc.

PATENT ASSIGNEE(S): SOURCE:

Eur. Pat. Appl., 16 pp.

CODEN: EPXXDW

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO. DATE
EP 1097711	A2	20010509	EP 2000-309212 20001101
EP 1097711	A3	20010801	
R: AT, BE,	CH, DE	, DK, ES,	FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
IE, SI,	LT, LV	, FI, RO	
JP 2001172182	A2	20010626	JP 2000-335765 20001102
PRIORITY APPLN. INFO	. :		GB 1999-25970 A 19991102
			GB 2000-3235 A 20000211

AB This invention relates to the use of certain cyclic guanosine 3',5'-monophosphate phosphodiesterase type 5 inhibitors, including in particular the compd. sildenafil, for the treatment of pulmonary hypertension.

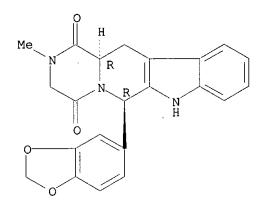
IT 171596-29-5

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(sildenafil or other phosphodiesterase V inhibitor for treatment of pulmonary hypertension)

RN 171596-29-5 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2,3,6,7,12,12a-hexahydro-2-methyl-, (6R,12aR)- (9CI) (CA INDEX NAME)



L12 ANSWER 20 OF 37 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 2001:258390 CAPLUS

DOCUMENT NUMBER: 135:189567

TITLE: IC-351: Treatment of erectile dysfunction treatment of

female sexual dysfunction phosphodiesterase 5

inhibitor

AUTHOR(S): Sorbera, L. A.; Martin, L.; Leeson, P. A.; Castaner,

J.

CORPORATE SOURCE: Prous Science, Barcelona, 08080, Spain SOURCE: Drugs of the Future (2001), 26(1), 15-19

CODEN: DRFUD4; ISSN: 0377-8282

PUBLISHER: Prous Science

DOCUMENT TYPE: Journal; General Review

LANGUAGE: English

AB A review with 20 refs. Significantly more patients (86 %) given IC-351 reported enhanced erections as compared to placebo and a significant change in the patient's median rating was obsd. with IC-351 treatment as compared to placebo. IC-351 (ClalisTM) continues to undergo phase III trials as a treatment for male erectile dysfunction and phase II trials as a treatment for female sexual dysfunction.

IT 171596-29-5, IC 351

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

RN 171596-29-5 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2,3,6,7,12,12a-hexahydro-2-methyl-, (6R,12aR)- (9CI) (CA INDEX NAME)

REFERENCE COUNT: 20 THERE ARE 20 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 21 OF 37 CAPLUS COPYRIGHT 2002 ACS ACCESSION NUMBER: 2001:100983 CAPLUS

DOCUMENT NUMBER:

134:152655

TITLE:

Pharmaceutical compositions containing

.beta.-carboline drugs

INVENTOR(S):

Anderson, Neil R.; Hartauer, Kerry J.; Kral, Martha

A.; Stephenson, Gregory A.

PATENT ASSIGNEE(S):

SOURCE:

Lilly Icos Llc, USA PCT Int. Appl., 42 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PA	TENT	NO.		KIND DATE				A	PPLI	CATI	ON N	0.	DATE				
	2001								M.	0 20	00-U	s209	81	2000	0801		
WO	2001				-	2001											
	W:	ΑE,	ΑG,	AL,	ΑM,	ΑT,	ΑU,	ΑZ,	BA,	BB,	BG,	BR,	BY,	ΒZ,	CA,	CH,	CN,
		CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EE,	ES,	FΙ,	GB,	GD,	GE,	GH,	GM,	HR,
		HU.	ID.	IL,	IN,	IS,	JP,	KE,	KG,	KP,	KR,	KZ,	LC,	LK,	LR,	LS,	LT,
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	SD, SI					•		•	•								
						AZ,	•	,	•		•	•		•	•		
	RW: GH, GM					•	•	•		•		•		AT,	BE.	CH,	CY,
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														NL,		MC,	PT,
•		IE.	SI.	LT.	LV,	FI,	RO,	MK,	CY,	AL							
NO					I, LT, LV, FI, RO, A 20020403				NO 2002-531					20020201			
	PRIORITY APPLN. INFO								US 1999-147048P P								
	MIOMIII IMILLI. IMIO							1	WO 2	000-	US20	981	W	2000	0801		

AB Pharmaceutical compns. contg. .beta.-carboline drugs and pharmaceutically acceptable salts and solvates thereof, wherein the drug is in free particulate form, is disclosed. A tablet contained a .beta.-carboline drug 10.00, lactose monohydrate 153.80, spray dried lactose monohydrate 25.00, hydroxypropyl cellulose 4.00, croscarmellose sodium 16.00, hydroxypropyl cellulose 1.75, sodium lauryl sulfate 0.70, microcryst. cellulose 37.50, and magnesium stearate 1.25 mg. The improvement in

bioavailability of the drug was demonstrated in humans.

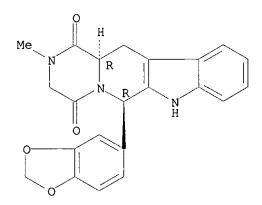
IT 171596-29-5

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (pharmaceutical compns. contg. .beta.-carboline drugs)

RN 171596-29-5 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2,3,6,7,12,12a-hexahydro-2-methyl-, (6R,12aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



L12 ANSWER 22 OF 37 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER:

2001:100982 CAPLUS

DOCUMENT NUMBER:

134:152654

TITLE:

SOURCE:

.beta.-Carboline pharmaceutical compositions Anderson, Neil R.; Gullapalli, Rampurna P.

Lilly Icos Llc, USA

PATENT ASSIGNEE(S):

PCT Int. Appl., 31 pp. CODEN: PIXXD2

INVENTOR(S):

DOCUMENT TYPE:

Patent English

2

LANGUAGE:

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PA	rent 1	NO.		KIND DATE					A	PPLI	CATI	ои ис	0.	DATE			
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														GH,			
		-												LR,	_		
		LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	NO,	ΝŻ,	PL,	PT,	RO,	RU,	SD,	SE,
	SG, SI				SL,	ТJ,	TM,	TR,	TT,	TZ,	UA,	UG,	US,	UZ,	VN,	YU,	ZA,
	ZW, AM				BY,	KG,	ΚZ,	MD,	RU,	ТJ,	TM						
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		CG,	CI,	CM,	GA,	GN,	G₩,	ML,	MR,	ΝE,	SN,	TD,	ТG				
EP	1200													2000			
	R:	AT,	ΒÉ,	CH,	DE,	DK,	ES,	FR,	GB,	GR,	ΙT,	LI,	LU,	NL,	SE,	MC,	PT,
		ΙE,	SI,	LT,	LV,	FΙ,	RO,	MK,	CY,	AL							
PRIORIT	PRIORITY APPLN. INFO								US 1	999-	1469.	24P	Р	1999	2803		
								1	WO 2	000-	US11	136	W	2000	0426	_	

AB .beta.-Carboline soft capsules contains a soln. or suspension of a PDE5 inhibitor, and are useful for treating sexual dysfunction. Thus, a formulation contained a .beta.-carboline 25.0, Capmul MCM 177.5, Gelucire 44/14 177.5, and propylene glycol 20.0 mg/capsule. In the phys. study of the above capsule formulation, no sedimentation was obsd. after storage at

4.degree. for 120 days.

IT 171596-29-5

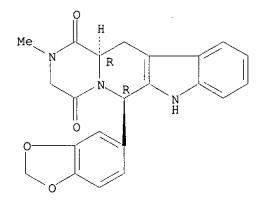
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(.beta.-carboline pharmaceutical compns.)

RN 171596-29-5 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2,3,6,7,12,12a-hexahydro-2-methyl-, (6R,12aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 23 OF 37 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER:

2001:100981 CAPLUS

DOCUMENT NUMBER:

134:152653

TITLE:

.beta.-Carboline pharmaceutical compositions

containing cellulose

INVENTOR(S):

Oren, Peter L.; Anderson, Neil R.; Kral, Martha A.

PATENT ASSIGNEE(S):

Lilly Icos Llc, USA PCT Int. Appl., 38 pp.

SOURCE:

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

2

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

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		CU,	CZ,	DE,	DK,	DM,	DZ,	EE,	ES,	FI,	GB,	GD,	GE,	GH,	GM,	HR,	ΗU,
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		SG,	SI,	SK,	SL,	ТJ,	TM,	TR,	TT,	TZ,	UA,	UG,	US,	UZ,	VN,	YU,	ZA,
		ZW,	AM,	AZ,	BY,	KG,	ΚZ,	MD,	RU,	ТJ,	TM						
	RW:													BE,			
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	2000																
EP	1200	090		A.	1	2002	0502		E	P 20	00-9	2636	8	2000	0426		
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NO	NO 2002000532					2002	0326		N	20	02-5	32		2002	0201		
PRIORIT	PRIORITY APPLN. INF								US 1	999-	1469.	24P	Ρ	1999	0803		
								1	WO 2	000-	US11	130	W	2000	0426		

AB .beta.-Carboline formulations contain a c-GMP phosphodiesterase inhibitor, a water-sol. diluent, a lubricant, a hydrophilic binder, a disintegrant, and optional microcryst. cellulose and/or a wetting agent, are useful for treating sexual dysfunction. Thus, a tablet formulation contained a .beta.-carboline 5.00, lactose monohydrate 109.655, lactose monohydrate (spray dried) 17.50, Hydroxypropyl cellulose 4.025, croscarmellose sodium 6.30, SLS 0.49, microcryst. cellulose (granular-102) 26.25, croscarmellose sodium 4.90, and Mg stearate 0.88 mg/tablet.

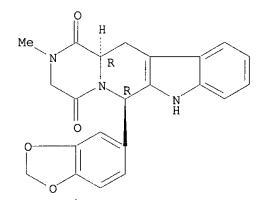
IT 171596-29-5

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (.beta.-carboline pharmaceutical compns. contg. cellulose)

RN 171596-29-5 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2,3,6,7,12,12a-hexahydro-2-methyl-, (6R,12aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 24 OF 37 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 2001:28490 CAPLUS

DOCUMENT NUMBER: 134:95523

TITLE: Drugs for the increase of the cAMP levels

INVENTOR(S): Stief, Christian G.; Ueckert, Stefan; Becker, Armin;

Jonas, Udo; Forssmann, Wolf-Georg

PATENT ASSIGNEE(S): Germany

SOURCE: Ger. Offen., 6 pp.

CODEN: GWXXBX

DOCUMENT TYPE: Patent LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE

----DE 19931206 A1 20010111 DE 1999-19931206 19990707

AB The invention concerns drugs for the increase of the cAMP levels and/or for the inhibition of the cAMP hydrolysis in smooth muscle tissues and their use for the treatment of diseases. Compds. such as sildenafil increased the cAMP levels in smooth muscle tissues.

IT 171596-29-5, IC 351

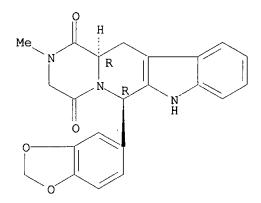
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(drugs for increase of cAMP levels)

RN 171596-29-5 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2,3,6,7,12,12a-hexahydro-2-methyl-, (6R,12aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



L12 ANSWER 25 OF 37 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 2000:790302 CAPLUS

DOCUMENT NUMBER: 133:329631

TITLE: Treatment of female arousal disorder with a type V

cGMP phosphodiesterase inhibitor

INVENTOR(S): Allemeier, Lora L.; Brashear, Diane L.; Ferguson,

Kenneth M.; Pullman, William E.

PATENT ASSIGNEE(S): Lilly Icos LLC, USA

SOURCE: PCT Int. Appl., 25 pp.

CODEN: PIXXD2
OCCUMENT TYPE: Patent

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PA'	TENT 1	NO.		KIND DATE				A	PPLI	CATI	٥.	DATE					
WO	2000	0661	 14	 A:	 1	2000	1109		- W	0 20	00-U	S111:	28	2000	0426		
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						GN,											
ĒΡ	1173		•						EP 2000-9					2000	0426		
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	IE, SI																
PRIORIT	RIORITY APPLN. INFO					-			US 1	999-	1321	29P	P	1999	0430		
								1	WO 2	000-	US11	128	W	2000	0426		

AB A method of treating female arousal disorder in a female patient is disclosed. The method includes orally administering an agent that inhibits cyclic guanosine 3',5'-monophosphate-specific phosphodiesterase type 5 to the female patient.

IT 171596-29-5 171596-40-0 304683-09-8

304683-11-2

RL: BAC (Biological activity or effector, except adverse); BSU (Biological

study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES
(Uses)

(cGMP phosphodiesterase type V inhibitor for treatment of female arousal disorder)

RN 171596-29-5 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2,3,6,7,12,12a-hexahydro-2-methyl-, (6R,12aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

RN 171596-40-0 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2,3,6,7,12,12a-hexahydro-2,3-dimethyl-, (3S,6R,12aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

RN 304683-09-8 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2,3,6,7,12,12a-hexahydro-2-methyl- (9CI) (CA INDEX NAME)

RN 304683-11-2 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2,3,6,7,12,12a-hexahydro-2,3-dimethyl-(9CI) (CA INDEX NAME)

REFERENCE COUNT: 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 26 OF 37 CAPLUS COPYRIGHT 2002 ACS ACCESSION NUMBER: 2000:785898 CAPLUS

ACCESSION NUMBER: DOCUMENT NUMBER:

133:329627

TITLE:

Tetracyclic cGMP-specific phosphodiesterase inhibitors

and their use in disease treatment

INVENTOR(S):

Daugan, Alain Claude Marie; Gellibert, Francoise

PATENT ASSIGNEE(S): Icos Corp., USA

SOURCE:

U.S., 30 pp., Cont.-in-part of PCT 9519978.

CODEN: USXXAM

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT: 4

PATENT INFORMATION:

PAT	ENT	NO.		KI	ND	DATE			A	PPLI	CATI	ои ис	ο.	DATE			
	6143 9519					2000 1995			-	_				1998 1995			
	₩:	GB,	GE, MW,	HU,	JP,	BG, KE, NO,	KG,	ΚP,	KR,	ΚZ,	LK,	LR,	LT,	LU,	LV,	MD,	MG,

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PRIORITY APPLN. INFO.:
                                         GB 1994-1090
                                                          A2 19950119
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                                                          Α
                                                             19980916
                                         WO 1999-US19466
                                                          W
                                                             19990826
OTHER SOURCE(S):
                         MARPAT 133:329627
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GΙ

AB A compd. of formula I (RO = H, halogen, C1-6 alkyl; R1 = H, C1-6 alkyl, C2-6 alkenyl, C2-6 alkynyl, halo-C1-6 alkyl, C3-8 cycloalkyl, C3-8 cycloalkyl-C1-3 alkyl, aryl-C1-3 alkyl, heteroaryl-C1-3 alkyl; R2 = (substituted) monocyclic arom. ring selected from benzene, thiophene, furan, and pyridine, or (substituted) bicyclic ring (a) attached to the rest of the mol. via one of the benzene ring carbon atoms, and wherein the fused ring is a 5- or 6-membered ring which may be satd. or partially or fully unsatd., and comprises carbon atoms and optionally one or two heteroatoms selected from oxygen, sulfur, and nitrogen; R3 = H, C1-3 alkyl, or R1 and R3 together = 3- or 4-membered alkyl or alkenyl chain) and salts and solvates thereof is disclosed. Compd. I is a potent and selective inhibitor of cyclic guanosine 3',5'-monophosphate-specific phosphodiesterase, having a utility in a variety of therapeutic areas where such inhibition is beneficial, including the treatment of

I

cardiovascular disorders and erectile dysfunction. Thus, many I compds.

were synthesized and tested in vitro as inhibitors of cGMP phosphodiesterase. Cis-2, 3, 6, 7, 12, 12a-hexahydro-2-(4-pyridylmethyl)-6-(3,4-methylenedioxyphenyl)pyrazino[2',1':6,1]pyrido[3,4-b]indole-1,4-dione showed IC50 of 10 nM. IT171488-01-0P 171488-03-2P 171488-04-3P 171488-06-5P 171488-07-6P 171488-08-7P 171488-09-8P 171488-10-1P 171488-11-2P 171488-12-3P 171488-13-4P 171488-14-5P 171488-15-6P 171488-16-7P 171488-17-8P 171488-18-9P 171488-19-0P 171488-20-3P 171488-21-4P 171488-22-5P 171488-76-9P 171488-77-0P 171488-86-1P 171488-87-2P 171488-91-8P 171488-92-9P 171488-94-1P 171488-95-2P 171489-01-3P 171489-02-4P 171596-27-3P 171596-28-4P 171596-29-5P 171596-30-8P 171596-31-9P 171596-32-0P 171596-36-4P 171596-39-7P 171596-40-0P 187935-15-5P 303984-32-9P RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (tetracyclic cyclic GMP-specific phosphodiesterase inhibitors and their use in disease treatment) RN 171488-01-0 CAPLUS Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-CN

2,3,6,7,12,12a-hexahydro-2-methyl-, (6R,12aS)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

RN 171488-03-2 CAPLUS CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2,3,6,7,12,12a-hexahydro-2-methyl-, (6R,12aR)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

RN 171488-04-3 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2,3,6,7,12,12a-hexahydro-, (6R,12aS)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

RN 171488-06-5 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-10-fluoro-2,3,6,7,12,12a-hexahydro-2-methyl-, (6R,12aS)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

RN 171488-07-6 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-

2,3,6,7,12,12a-hexahydro-2-[2-(2-pyridinyl)ethyl]-, (6R,12aS)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

RN 171488-08-7 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2,3,6,7,12,12a-hexahydro-2-(2-pyridinylmethyl)-, (6R,12aS)-rel-(9CI) (CA INDEX NAME)

Relative stereochemistry.

RN 171488-09-8 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2,3,6,7,12,12a-hexahydro-2-(3-pyridinylmethyl)-, (6R,12aS)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

RN 171488-10-1 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2,3,6,7,12,12a-hexahydro-2-(4-pyridinylmethyl)-, (6R,12aS)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

RN 171488-11-2 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2-ethyl-2,3,6,7,12,12a-hexahydro-, (6R,12aS)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

RN 171488-12-3 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-

Prepared by Toby Port, STIC, Biotech Library 308-3534

2,3,6,7,12,12a-hexahydro-2-(2,2,2-trifluoroethyl)-, (6R,12aS)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

RN 171488-13-4 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2,3,6,7,12,12a-hexahydro-2-propyl-, (6R,12aS)-rel-(9CI) (CA INDEX NAME)

Relative stereochemistry.

RN 171488-14-5 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2,3,6,7,12,12a-hexahydro-2-(1-methylethyl)-, (6R,12aS)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

RN 171488-15-6 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2-cyclopropyl-2,3,6,7,12,12a-hexahydro-, (6R,12aS)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

RN 171488-16-7 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2-butyl-2,3,6,7,12,12a-hexahydro-, (6R,12aS)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

RN 171488-17-8 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-

Prepared by Toby Port, STIC, Biotech Library 308-3534

2-butyl-2,3,6,7,12,12a-hexahydro-, (6R,12aR)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

RN 171488-18-9 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2-(cyclopropylmethyl)-2,3,6,7,12,12a-hexahydro-, (6R,12aS)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

RN 171488-19-0 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2-cyclopentyl-2,3,6,7,12,12a-hexahydro-, (6R,12aS)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

RN 171488-20-3 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2-cyclohexyl-2,3,6,7,12,12a-hexahydro-, (6R,12aS)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

RN 171488-21-4 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2,3,6,7,12,12a-hexahydro-2-(phenylmethyl)-, (6R,12aS)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

RN 171488-22-5 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2-[(4-fluorophenyl)methyl]-2,3,6,7,12,12a-hexahydro-, (6R,12aS)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

RN 171488-76-9 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2,3,6,7,12,12a-hexahydro-2-(2-methylpropyl)-, (6R,12aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

RN 171488-77-0 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2-(cyclohexylmethyl)-2,3,6,7,12,12a-hexahydro-, (6R,12aR)- (9CI) (CA INDEX NAME)

RN 171488-86-1 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2,3,6,7,12,12a-hexahydro-2,10-dimethyl-, (6R,12aS)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

RN 171488-87-2 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2-[(3,4-dimethoxyphenyl)methyl]-2,3,6,7,12,12a-hexahydro-, (6R,12aR)-(9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

RN 171488-91-8 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2,3,6,7,12,12a-hexahydro-2-(2-propynyl)-, (6R,12aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

RN 171488-92-9 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2-(1,3-benzodioxol-5-ylmethyl)-2,3,6,7,12,12a-hexahydro-, (6R,12aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

RN 171488-94-1 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2-(2-furanylmethyl)-2,3,6,7,12,12a-hexahydro-, (6R,12aR)- (9CI) (CA INDEX NAME)

RN 171488-95-2 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2,3,6,7,12,12a-hexahydro-2-(2-thienylmethyl)-, (6R,12aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

RN 171489-01-3 CAPLUS

CN 5H,14H-Pyrrolo[1'',2'':4',5']pyrazino[1',2':1,6]pyrido[3,4-b]indole-5,14-dione, 12-(1,3-benzodioxol-5-yl)-1,2,3,5a,6,11,12,14a-octahydro-, (5aR,12R,14aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

RN 171489-02-4 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2,3,6,7,12,12a-hexahydro-2,3-dimethyl-, (3R,6R,12aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

RN 171596-27-3 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2,3,6,7,12,12a-hexahydro-2-methyl-, (6R,12aS)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

RN 171596-28-4 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2,3,6,7,12,12a-hexahydro-2-methyl-, (6S,12aR)- (9CI) (CA INDEX NAME)

RN 171596-29-5 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2,3,6,7,12,12a-hexahydro-2-methyl-, (6R,12aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

RN 171596-30-8 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2,3,6,7,12,12a-hexahydro-2-(1-methylethyl)-, (6R,12aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

RN 171596-31-9 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-

Prepared by Toby Port, STIC, Biotech Library 308-3534

2-butyl-2,3,6,7,12,12a-hexahydro-, (6R,12aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

RN 171596-32-0 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2-cyclopentyl-2,3,6,7,12,12a-hexahydro-, (6R,12aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

RN 171596-36-4 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2,3,6,7,12,12a-hexahydro-, (6R,12aR)- (9CI) (CA INDEX NAME)

RN 171596-39-7 CAPLUS

CN 5H,14H-Pyrrolo[1'',2'':4',5']pyrazino[1',2':1,6]pyrido[3,4-b]indole-5,14-dione, 12-(1,3-benzodioxol-5-yl)-1,2,3,5a,6,11,12,14a-octahydro-, (5aR,12R,14aS)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

RN 171596-40-0 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2,3,6,7,12,12a-hexahydro-2,3-dimethyl-, (3S,6R,12aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

RN 187935-15-5 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2,3,6,7,12,12a-hexahydro-3-methyl-, (3S,6R,12aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 303984-32-9 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2-[2-(1,3-benzodioxol-5-yl)ethyl]-2,3,6,7,12,12a-hexahydro-, (6R,12aR)-(9CI) (CA INDEX NAME)

Absolute stereochemistry.

REFERENCE COUNT:

THERE ARE 41 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 27 OF 37 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER:

2000:686171 CAPLUS

DOCUMENT NUMBER:

133:271672

TITLE:

Phosphodiesterase inhibitor preparation for treatment

of sexual functional disorders

PATENT ASSIGNEE(S):

Lilly Icos Llc, USA

SOURCE:

Ger. Gebrauchsmusterschrift, 47 pp.

CODEN: GGXXFR

DOCUMENT TYPE:

Patent

LANGUAGE:

German

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 20007861	U1	20000928	DE 2000-20007861	20000426
NO 2000002097	A	20011026	NO 2000-2097	20000425
CA 2307101	AA	20001030	CA 2000-2307101	20000426
FI 2000000976	A	20001030	FI 2000-976	20000426

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NL 1015027
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                       A1
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                             20010214
     SE 2000001518
                       Α
                             20001031
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     ZA 2000002058
                       Α
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     WO 2000066099
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     EP 1173181
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                                            EP 2000-926367
                                                              20000426
             AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
             IE, SI, LT, LV, FI, RO
                                            LU 2000-90569
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     LU 90569
                       Α2
                             20020227
     NO 2001005275
                             20011206
                                            NO 2001-5275
                                                              20011029
PRIORITY APPLN. INFO.:
                                         US 1999-132036P
                                                          P
                                                              19990430
                                         WO 2000-US11129 W
                                                             20000426
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AB A formulation for the treatment of sexual malfunctions (e.g., erectile dysfunction in men and decreased libido in women) which contains a phosphodiesterase 5 inhibitor with a IC50 of at least 100-fold lower than that with phosphodiesterase 6 as active ingredient, and which inhibits phosphodiesterase 5 with an IC50 of at least 1000-fold lower than for phosphodiesterase 1c and a IC50 for PDE5 of below 10 nM.

IT 171596-29-5

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); PEP (Physical, engineering or chemical process); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses) (phosphodiesterase inhibitor prepn. for treatment of sexual functional disorders)

RN 171596-29-5 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2,3,6,7,12,12a-hexahydro-2-methyl-, (6R,12aR)- (9CI) (CA INDEX NAME)

L12 ANSWER 28 OF 37 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 2000:666601 CAPLUS

DOCUMENT NUMBER: 133:256811

TITLE: Pharmaceutical compositions containing dopamine

agonists in combination with nitric oxide donors for

treating and/or preventing sexual dysfunctions

INVENTOR(S): Garvey, David S. PATENT ASSIGNEE(S): Nitromed, Inc., USA

SOURCE: PCT Int. Appl., 48 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PAT						KIND DATE			A.	PPLI	CATI	N NC	ο.	DATE				
WO	2000	0547	73	Α	1	2000	0921		W	O 20	00-U	s370	9	2000	0310			
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	IL, IN, I MA. MD. M					ΚE,	KG,	ΚP,	KR,	ΚZ,	LC,	LK,	LR,	LS,	LT,	LU,	LV,	
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	RIORITY APPLN. INFO.:									999-	1239	20P	P	1999)312			
OTHER SO	OTHER SOURCE(S):				MAR	PAT	133:	2568	11							_		

The present invention is directed to novel compns. comprising at least one AB dopamine agonist in combination with at least one nitric oxide donor (i.e. compds. that donate, transfer or release nitric oxide, elevate endogenous levels of endothelium-derived relaxing factor, stimulate endogenous synthesis of nitric oxide or are substrates for nitric oxide synthase). The novel compns. may optionally comprise at least one therapeutic agent, such as, a vasoactive agent, an antiemetic agent, and mixts. thereof. The dopamine agonist is preferably apomorphine. The present invention is also directed to methods for treating and/or preventing sexual dysfunctions and/or enhancing sexual responses in patients. In other embodiments, the present invention is directed to methods treating or preventing neurodegenerative diseases, mitochondrial diseases, spinal cord injury, central or psychostimulant addiction, senile dementia, circulatory disorders, cardiovascular disorders, hyperprolactinemia or myopia. The compds. and/or compns. of the present invention can also be provided in

the form of a pharmaceutical kit (no data).

TΤ **171596-29-5**, Ic 351

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES

(pharmaceutical compns. contg. dopamine agonists in combination with nitric oxide donors for treating and/or preventing sexual dysfunctions) 171596-29-5 CAPLUS

Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-CN 2,3,6,7,12,12a-hexahydro-2-methyl-, (6R,12aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS REFERENCE COUNT: RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 29 OF 37 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER:

2000:645819 CAPLUS

DOCUMENT NUMBER:

133:227820

TITLE:

RN

Pharmaceutical compositions for treating erectile dysfunction containing a melanocortin receptor agonist and a cyclic-GMP-specific phosphodiesterase inhibitor

or an .alpha.-adrenergic receptor antagonist

INVENTOR(S):

Stoner, Elizabeth

PATENT ASSIGNEE(S):

Merck & Co., Inc., USA; Waldstreicher, Joanne

SOURCE:

PCT Int. Appl., 25 pp. CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

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CG, CI, CM					GΑ,	GN,	GW,	ML,	MR,	NE,	SN,	TD,	ΤG				
EP 1161255				Α	2	2001	1212		E.	P 20	00-9	1608	1	20000	0303		

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO

PRIORITY APPLN. INFO.:

US 1999-123244P P 19990308 WO 2000-US5711 W 20000303

AB The present invention provides for a method for the treatment of erectile dysfunction in a male or female human subject in need of such treatment comprising administration of a therapeutically effective amt. of an agonist of the melanocortin receptor in combination with a therapeutically effective amt. of a cyclic-GMP-specific phosphodiesterase inhibitor or an alpha-adrenergic receptor antagonist. Further, the present invention provides for pharmaceutical compns. useful in the methods of the present invention, as well as a method of manuf. of a medicament useful for treating erectile dysfunction. Effect of the combination of 20 mg/kg of the invention compds. was tested in rats. A hard gelatin capsule contained a melanocortin receptor agonist 5, and a type V phosphodiesterase inhibitor 10 mg.

IT 171596-29-5

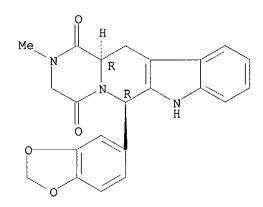
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(pharmaceutical compns. for treating erectile dysfunction contg. melanocortin receptor agonist and cyclic-GMP-specific phosphodiesterase inhibitor or .alpha.-adrenergic receptor antagonist)

RN 171596-29-5 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2,3,6,7,12,12a-hexahydro-2-methyl-, (6R,12aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



L12 ANSWER 30 OF 37 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 2000:475525 CAPLUS

DOCUMENT NUMBER: 133:109946

TITLE: Methylaminodihydroimidazoquinolinones for treating sexual disturbances and inducing mating in animals

Maria acon Moutin Dumban, MaCall Dobort B

INVENTOR(S): Meglasson, Martin Durham; McCall, Robert B.

PATENT ASSIGNEE(S): Pharmacia & Upjohn Company, USA

SOURCE: PCT Int. Appl., 48 pp. CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE

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WO 2000040226
                       A2
                            20000713
                                           WO 1999-US27951 19991220
    WO 2000040226
                       AЗ
                            20010201
             AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU,
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                            20010925
                                           BR 1999-16759
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                       A2
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             AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
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                                        US 1999-114840P P 19990106
PRIORITY APPLN. INFO.:
                                        US 1999-115051P P
                                                            19990108
                                        US 1999-115922P P
                                                            19990114
                                        US 1999-120543P P
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                                        WO 1999-US27951 W 19991220
                         MARPAT 133:109946
OTHER SOURCE(S):
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GΙ

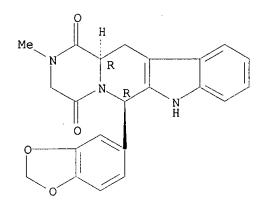
The present invention is a method of treating sexual disturbances in humans and inducing mating in non-human mammals using the compds. of formula (I: R1,R2,R3 = H, alkyl, alkenyl, cycloalkyl, etc.; X = H, alkyl, halogen, OH, etc.; A,B,D = CH, CH2, CO, N, etc.; n = 0 or 1) in a dosage range where the sexually therapeutic amt. is from about 0.2 through 8 mg/person/dose and where the sexually mating amt. is from about 0.003 through 0.2 mg/kg/dose.

IT **171596-29-5**, ICOS 351

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); PEP (Physical, engineering or chemical process); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses) (treating sexual disturbances and inducing mating in animals)

RN 171596-29-5 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2,3,6,7,12,12a-hexahydro-2-methyl-, (6R,12aR)- (9CI) (CA INDEX NAME)



L12 ANSWER 31 OF 37 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER:

2000:392967 CAPLUS

DOCUMENT NUMBER:

133:22405

TITLE:

Preventives containing 1,6-dihydro-7H-pyrazolo[4,3-

d]pyrimidin-7-one derivatives and related compounds

for nitric acid-induced tolerance

INVENTOR(S):

Ellis, Peter

PATENT ASSIGNEE(S):

Pfizer Inc., USA

SOURCE:

Jpn. Kokai Tokkyo Koho, 31 pp.

CODEN: JKXXAF

DOCUMENT TYPE:

Patent

LANGUAGE:

Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

	PAT	TENT	NO.		KI	ND D	ATE				APE	PLIC	CATI	ои ио	٥.	DATE			
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OTHER	R SC	URCE	(S):			MARE	TA	133:2	2240	5									

GI

AB The title compds. [I; R1 = H, C1-3 alkyl, C3-5 cycloalkyl, C1-3 perfluoroalkyl; R2 = H, C1-3 perfluoroalkyl, C1-6 alkyl substituted by OH, C1-3 alkoxy, or C3-6 cycloalkyl; R3 = C1-6 alkyl, C3-6 alkenyl, C3-6alkynyl, C3-7 cycloalkyl, C1-6 perfluoroalkyl, C3-6 cycloalkyl-C1-6 alkyl; R4 together with the R4-bonded N completes 4-N-R6-piperazinyl; R5 = H, C1-4 alkyl, C1-3 alkoxy, NR7R8, CONR7R8; wherein R6 = H, C1-6 alkyl, hydroxy-C2-6 alkyl, R7R8N-C2-6 alkyl, R7R8NCO-C1-6 alkyl, CONR7R8, CSNR7R8, C(:NH)NR7R8; wherein R7, R8 = H, C1-4 alkyl, C1-3 alkoxy-C2-4 alkyl, hydroxy-C2-4 alkyl], pharmacol. acceptable salts, prodrugs, polymorphs, hydrates, solvates, active metabolites, or stereoisomers thereof , which are cGMP phosphodiesterase inhibitors and useful for the prevention of nitrate tolerance (no data), are prepd. The title compds. also include pyrazolo[3,4-d]pyrimidin-4-one, quinazolin-4-one, purin-6-one, pyrido[3,2-d]pyrimidin-4-one, and pyrazino[1',2':1,6]pyrido[3,4-b]indole derivs.

IT 171488-10-1P 171488-15-6P 171596-29-5P 171596-30-8P 171596-32-0P 171596-36-4P 171596-40-0P 187935-15-5P 273207-76-4P

RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preventives contg. 1,6-dihydro-7H-pyrazolo[4,3-d]pyrimidin-7-one derivs. and related compds. as cGMP phosphodiesterase inhibitors for nitric acid-induced tolerance)

RN 171488-10-1 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2,3,6,7,12,12a-hexahydro-2-(4-pyridinylmethyl)-, (6R,12aS)-rel- (9CI) (CA INDEX NAME)

RN 171488-15-6 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2-cyclopropyl-2,3,6,7,12,12a-hexahydro-, (6R,12aS)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

RN 171596-29-5 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2,3,6,7,12,12a-hexahydro-2-methyl-, (6R,12aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

RN 171596-30-8 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2,3,6,7,12,12a-hexahydro-2-(1-methylethyl)-, (6R,12aR)- (9CI) (CA INDEX NAME)

RN 171596-32-0 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2-cyclopentyl-2,3,6,7,12,12a-hexahydro-, (6R,12aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

RN 171596-36-4 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2,3,6,7,12,12a-hexahydro-, (6R,12aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

RN 171596-40-0 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2,3,6,7,12,12a-hexahydro-2,3-dimethyl-, (3S,6R,12aR)- (9CI) (CA INDEX

NAME)

Absolute stereochemistry. Rotation (+).

RN 187935-15-5 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2,3,6,7,12,12a-hexahydro-3-methyl-, (3S,6R,12aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 273207-76-4 CAPLUS

CN 5H,14H-1,2,4-Triazolo[4'',3'':4',5']pyrazino[1',2':1,6]pyrido[3,4-b]indole-5,14-dione, 12-(1,3-benzodioxol-5-yl)-1,2,3,5a,6,11,12,14a-octahydro-, (5aR,12R,14aS)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

Prepared by Toby Port, STIC, Biotech Library 308-3534

L12 ANSWER 32 OF 37 CAPLUS COPYRIGHT 2002 ACS ACCESSION NUMBER: 2000:240994 CAPLUS

DOCUMENT NUMBER: 132:270098

TITLE: Tablets immediately disintegrating in the oral cavity INVENTOR(S): Furitsu, Hisao; Kato, Akira; Ohwaki, Takayuki; Yasui,

Masanori

PATENT ASSIGNEE(S): Eisai Co., Ltd., Japan SOURCE: PCT Int. Appl., 39 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PAT	TENT NO.		KIND DATE		APPLICATION NO.						DATE					
WO	2000020	033	A1		20000413			Ţ	WO 19	999-J	P529	8 8	1999	0928		
	W: CA RW: AT PT		CH,	CY,	DE,	DK,	ES,	FI	, FR,	GB,	GR,	IE,	IT,	LU,	MC,	NL,
EP	1120120 R: AT		A CH	_	2001								1999 NT.		MC.	PТ.
		, FI					- 10,								110,	,
JP	2000178	204	A.	2	2000	0627		· ·	JP 19	999-2	7613	3	1999	0929		
JP	2000191	518	A.	2	2000	0711		,	JP 19	999-2	7613	4	1999	0929		
PRIORITY	APPLN.	INFO	. :					JP :	1998-	-2823	78	Α	1998	1005		
								JP :	1998-	-2959	47	Α	1998	1019		
								WO :	1999-	-JP52	98	W	1999	0928		

OTHER SOURCE(S): MARPAT 132:270098

AB The invention relates to tablets immediately disintegrating in the oral cavity which contain a phosphodiesterase inhibitor having an effect of ameliorating erectile dysfunction and a process for producing the same; and tablets immediately disintegrating in the oral cavity which contain a hardly sol. drug and show an improved soly.; and a process for producing the same. Namely, tablets immediately disintegrating in the oral cavity which contain a cyclic GMP phosphodiesterase inhibitor [e.g. sildenafil] and saccharides and process for producing the same; and a process for producing tablets immediately disintegrating in the oral cavity which comprises dissolving the hardly sol. drug together with a surfactant and/or a water-sol. polymer in an org. solvent or an aq. org. solvent, mixing saccharides with a molded matter obtained by coating a filler or granulating together with a filler, adding an org. solvent, water or an aq. org. solvent thereto, kneading the resultant mixt. and then compression molding the same.

IT 263392-02-5 263392-03-6

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (tablets immediately disintegrating in the oral cavity)

RN 263392-02-5 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2,3,6,7,12,12a-hexahydro-2-methyl-, (6S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 263392-03-6 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2,3,6,7,12,12a-hexahydro-2,3-dimethyl-, (3S,6S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

REFERENCE COUNT: 28 THERE ARE 28 CITED REFERENCES AVAILABLE FOR THIS

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 33 OF 37 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER:

1999:753072 CAPLUS

DOCUMENT NUMBER:

131:346565

TITLE:

Combination of phentolamine and cyclic GMP

phosphodiesterase inhibitors for the treatment of

sexual dysfunction

INVENTOR(S):

Estok, Thomas Mark

PATENT ASSIGNEE(S):

Schering Corporation, USA PCT Int. Appl., 104 pp.

SOURCE:

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PAT	TENT	NO.		KI	ND	DATE			A	PPLI	CATI	٥.	DATE						
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WO	9959	584		A	1	1999	1125		W	0 19	99-U	S704	6	19990517					
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		KZ,	LC,	LK,	LR,	LT,	LU,	LV,	MD,	MG,	MK,	MN,	MX,	NO,	ΝZ,	PL,	PT,		

RO, RU, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, US, UZ, VN, YU, ZA, AM, AZ, BY, KG, KZ, RU, TJ, TM RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG AU 9940685 19991206 AU 1999-40685 19990517 A1 PRIORITY APPLN. INFO.: US 1998-81640 A 19980520 US 1998-82977 A2 19980521 US 1998-106517 A 19980629 WO 1999-US7046 W 19990517

AB A method of treating sexual dysfunction comprising administering a therapeutically effective amt. of a combination of phentolamine and cGMP PDE inhibitor (e.g. sildenafil), as well as pharmaceutical compns. and kits useful in those methods, are disclosed.

IT 171596-29-5 171596-40-0

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

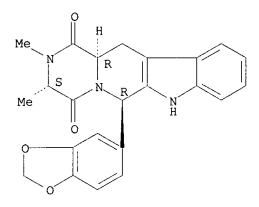
(phentolamine and cyclic GMP phosphodiesterase inhibitors for the treatment of sexual dysfunction)

RN 171596-29-5 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2,3,6,7,12,12a-hexahydro-2-methyl-, (6R,12aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

RN 171596-40-0 CAPLUS
CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)2,3,6,7,12,12a-hexahydro-2,3-dimethyl-, (3S,6R,12aR)- (9CI) (CA INDEX NAME)



REFERENCE COUNT:

9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 34 OF 37 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1999:393867 CAPLUS

DOCUMENT NUMBER: 131:193591

TITLE: IC-351 ICOS Corp
AUTHOR(S): Norman, Peter

CORPORATE SOURCE: Norman Consulting, Bucks, SL1 8JW, UK

SOURCE: Current Opinion in Central & Peripheral Nervous System

Investigational Drugs (1999), 1(2), 268-271

CODEN: COCDFA; ISSN: 1464-844X

PUBLISHER: Current Drugs Ltd.

DOCUMENT TYPE: Journal; General Review

LANGUAGE: English

A review with 35 refs. IC-351 (GF-196960), an inhibitor of phosphodiesterase 5 (PDE5) from ICOS Corp, is in phase II trials for the treatment of mild to moderate erectile dysfunction (ED) [274568], [296831]. A randomized, placebo-controlled, crossover study assessed the safety and physiol. effects of IC-351 in patients with ED [274568]. Enrollment was completed in Apr. 1998 [284935]. Results from the trial showed that IC-351 demonstrated significant benefit over placebo [311566]. In Oct. 1998, ICOS entered into a joint venture agreement with Eli Lilly for the development and commercialization of IC-351 for the treatment of sexual dysfunction [300118], [310951]. IC-351 is also in development for the treatment of female sexual dysfunction [321995]. In Mar. 1998, the company announced that the compd. was in preclin. evaluation for the treatment of hypertension [284638]. A collaboration with Glaxo Wellcome (GW) was terminated in Mar. 1997 [240438] and intellectual property rights were assigned to ICOS. This left ICOS to develop the compds. with royalties payable to GW. Although GW reserved the right to pursue its own program, it does not appear to be doing so. In Feb. 1999 Deutsche Bank predicted sales of \$200 million in 2002 rising to \$400 million in 2003 for IC-351 [316821].

T 171596-29-5

CN

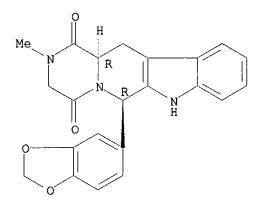
RL: ADV (Adverse effect, including toxicity); BAC (Biological activity or effector, except adverse); BPR (Biological process); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)

(effect of IC-351 for treatment of mild to moderate erectile dysfunction)

RN 171596-29-5 CAPLUS

Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2,3,6,7,12,12a-hexahydro-2-methyl-, (6R,12aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



REFERENCE COUNT: 35 THERE ARE 35 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 35 OF 37 CAPLUS COPYRIGHT 2002 ACS ACCESSION NUMBER: 1997:215760 CAPLUS

DOCUMENT NUMBER: 126:203727

TITLE: Use of cGMP-phosphodiesterase inhibitors to treat

impotence

INVENTOR(S): Daugan, Alain Claude-Marie

PATENT ASSIGNEE(S): Laboratoire Glaxo Wellcome S.A., Fr.; Daugan, Alain

Claude-Marie

SOURCE: PCT Int. Appl., 27 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 4

PATENT INFORMATION:

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	97036				 1	 1997(0206		1			EP302		1996	0711		
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		LT,	LU,	LV,	MD,	MG,	MK,	MN,	MW	, M	K, NO	, NZ,	PL,	PT,	RO,	RU,	SD,
		SE,	SG		-												
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												, CG,					
CA	22267																
AU	96641	91		A.	1	19970	0218			AU 1	1996-	64191		1996	0711		
	70495																
	83904									EP 1	1996-	92398	5	1996	0711		
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CN	11952	90	•	A	•	19981007				CN I	1996-	19672	3	1996	0711		
BR	96097	58		Α		19990	0126			BR 1	1996-	9758		1996	0711		
JP	11509	221		T	2	19990	0817		,	JP 1	1996-	50624	8	1996	0711		
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	98001											153					
US	61403	29		A		2000	1031	•	1								
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PRIORIT				. :					GB	1995	5-144	64	Α	1995	0714		
	•							1	GB	1994	4-109	0	Α	1994	0121		
									•			.83					
												65					

WO 1996-EP3024 W 19960711 WO 1996-EP3025 A2 19960711

OTHER SOURCE(S): MARPAT 126:203727

AB Compds. such as (6R,12aR)-2,3,6,7,12,12a-hexahydro-2-methyl-6-(3,4-methylenedioxyphenyl)pyrazino[2',1':6,1]pyrido[3,4-b]indole-1,4-dione, (3S,6R,12aR)-2,3,6,7,12,12a-hexahydro-2,3-dimethyl-6-(3,4-methylenedioxyphenyl)pyrazino[2',1':6,1]pyrido[3,4-b]indole-1,4-dione, and physiol. acceptable salts and solvates thereof, can be used as cGMP-phosphodiesterase inhibitors in the treatment of impotence.

IT 171596-29-5P 171596-40-0P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use);

BIOL (Biological study); PREP (Preparation); USES (Uses)

(CGMP-phosphodiesterase inhibitor formulations to treat impotence)

(cGMP-phosphodiesterase inhibitor formulations to treat impotence)

RN 171596-29-5 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2,3,6,7,12,12a-hexahydro-2-methyl-, (6R,12aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

RN 171596-40-0 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2,3,6,7,12,12a-hexahydro-2,3-dimethyl-, (3S,6R,12aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

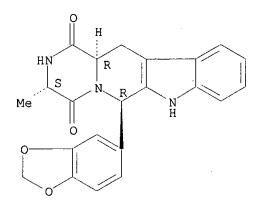
IT 187935-15-5P

RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (cGMP-phosphodiesterase inhibitor formulations to treat impotence)

RN 187935-15-5 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2,3,6,7,12,12a-hexahydro-3-methyl-, (3S,6R,12aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L12 ANSWER 36 OF 37 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1997:101617 CAPLUS

DOCUMENT NUMBER: 126:108935

TITLE: Method of producing a solid dispersion of a poorly

water-soluble drug

INVENTOR(S): Butler, James Matthew

PATENT ASSIGNEE(S): Glaxo Group Limited, UK; Butler, James Matthew

SOURCE: PCT Int. Appl., 27 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

	PATENT NO.					KIND DATE					PPLI	CATI	ON NO	ο.	DATE			
	WO	9638	131		A1 19961205					W	0 19	 96-Е	P229	9	1996	0530		
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			SG,	SI														
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	ΑU	9660	026		A	1	1996	1218		A	J 19	96-6	0026		1996	0530		
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	ΑT	2073	44		E		2001	1115	•	A'	Г 19	96-9	1745	7	1996	0530		
	US	5985	326		Α		1999	1116		U	S 19	98-9	5293	3	1998	0206		
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									1	WO 1	996-	EP22	99	W	1996	0530		
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AB A process for prepg. solid dispersions of poorly sol. drugs comprises (1) providing an intimate mixt. contg. the carrier or excipient and a nonaq. water-miscible solvent, and optionally, water, (2) mixing the intimate mixt. with the poorly water-sol. drug, and (3) pptg. the drug and the carrier or excipient. Specifically, solid dispersions of (6R,12aR)-2,3,6,7,12,12a-hexahydro-2-methyl-6-(3,4-methylenedioxyphenyl)pyrazino[2',1':6,1]pyrido[3,4-b]indole-1,4-dione (I)

and (+)-N-[1-(adamantanmethyl)-2,4-dioxo-5-phenyl-2,3,4,5-tetrahydro-1H-1,5-benzodiazepin-3-yl]-N'-phenylurea are described. I 1 g and hydroxypropyl Me cellulose phthalate 1 g were dissolved in a 9:1 mixt. of acetone/water (27 mL) and 0.25 M HCl 83 mL was added to obtain a ppt. The ppt. was filtered, washed with water, dried, and milled. A tablet contg. 100 mg ppt. was formulated.

IT 171596-29-5P

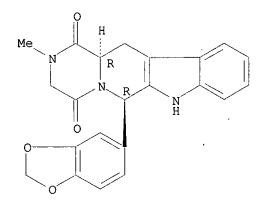
> RL: PRP (Properties); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. of pyrazinopyridoindole deriv. in manuf. of solid dispersion of poorly water-sol. drugs)

RN 171596-29-5 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2,3,6,7,12,12a-hexahydro-2-methyl-, (6R,12aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



CAPLUS COPYRIGHT 2002 ACS L12 ANSWER 37 OF 37

ACCESSION NUMBER: DOCUMENT NUMBER:

1995:986316 CAPLUS

TITLE:

124:55977

Preparation of pyrazinopyridoindolediones as

inhibitors of cyclic guanosine 3',5'-monophosphate

specific phosphodiesterase Daugan, Alain Claude-Marie

PATENT ASSIGNEE(S):

Laboratoires Glaxo S.A., Fr.

SOURCE:

PCT Int. Appl., 87 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

INVENTOR(S):

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

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                                                             19981201
    CN 1224720
                            19990804
                       В
                            20010905
    CN 1070492
     US 6127542
                       Α
                            20001003
                                           US 1999-399667
                                                             19990921
                                                         Α
                                                            19940121
PRIORITY APPLN. INFO.:
                                        GB 1994-1090
                                                            19950119
                                        WO 1995-EP183
                                                         W
                                                         A 19950714
                                        GB 1995-14464
                                        GB 1995-14465
                                                         A 19950714
                                        WO 1996-EP3024
                                                         A2 19960711
                                        WO 1996-EP3025
                                                         A2 19960711
                                        US 1996-669389
                                                         A3 19960716
                                        US 1998-133078
                                                         A1 19980812
OTHER SOURCE(S):
                         MARPAT 124:55977
GT
     For diagram(s), see printed CA Issue.
AB
     The title compds. I [R represents hydrogen, halogen or C1-6 alkyl; R1
     represents hydrogen, C1-6 alkyl, C2-6 alkenyl, C2-6 alkynyl,
    haloC1-6alkyl, C3-8cycloalkyl, etc.; R2 represents an optionally
     substituted monocyclic arom. ring selected from benzene, thiophene, furan
     and pyridine or an optionally substituted bicyclic ring Q1 attached to the
     rest of the mol. via one of the benzene ring carbon atoms and wherein the
     fused ring A is a 5- or 6-membered ring which may be satd. or partially or
     fully unsatd. and comprises carbon atoms and optionally one or two
     heteroatoms selected from oxygen, sulfur and nitrogen; and R3 represents
    hydrogen or C1-3 alkyl, or R1 and R3 together represent a 3- or 4-membered
     alkyl or alkenyl chain] are prepd. In an in vitro test for inhibitory
     effect on cGMP-PDE, cis-2,3,6,7,12,12a-hexahydro-2-(4-pyridylmethyl)-6-
     (3,4-methylenedioxyphenyl)pyrazino[2',1':6,1]pyrido[3,4-b]indole-1,4-dione
     (prepn. given) showed IC50 of 10 nM.
IT
    171488-01-0P 171488-03-2P 171488-04-3P
     171488-06-5P 171488-07-6P 171488-08-7P
     171488-09-8P 171488-10-1P 171488-11-2P
     171488-12-3P 171488-13-4P 171488-14-5P
     171488-15-6P 171488-16-7P 171488-17-8P
     171488-18-9P 171488-19-0P 171488-20-3P
     171488-21-4P 171488-22-5P 171488-76-9P
     171488-77-0P 171488-86-1P 171488-87-2P
     171488-91-8P 171488-92-9P 171488-93-0P
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171488-94-1P 171488-95-2P 171489-01-3P 171489-02-4P 171596-27-3P 171596-28-4P 171596-29-5P 171596-30-8P 171596-31-9P 171596-32-0P 171596-36-4P 171596-39-7P 171596-40-0P

RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. of pyrazinopyridoindolediones as inhibitors of cyclic guanosine monophosphate specific phosphodiesterase)

RN 171488-01-0 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2,3,6,7,12,12a-hexahydro-2-methyl-, (6R,12aS)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

RN 171488-03-2 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2,3,6,7,12,12a-hexahydro-2-methyl-, (6R,12aR)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

RN 171488-04-3 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2,3,6,7,12,12a-hexahydro-, (6R,12aS)-rel- (9CI) (CA INDEX NAME)

RN 171488-06-5 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-10-fluoro-2,3,6,7,12,12a-hexahydro-2-methyl-, (6R,12aS)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

RN 171488-07-6 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2,3,6,7,12,12a-hexahydro-2-[2-(2-pyridinyl)ethyl]-, (6R,12aS)-rel-(9CI) (CA INDEX NAME)

RN 171488-08-7 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2,3,6,7,12,12a-hexahydro-2-(2-pyridinylmethyl)-, (6R,12aS)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

RN 171488-09-8 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2,3,6,7,12,12a-hexahydro-2-(3-pyridinylmethyl)-, (6R,12aS)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

RN 171488-10-1 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2,3,6,7,12,12a-hexahydro-2-(4-pyridinylmethyl)-, (6R,12aS)-rel-(9CI) (CA INDEX NAME)

RN 171488-11-2 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2-ethyl-2,3,6,7,12,12a-hexahydro-, (6R,12aS)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

RN 171488-12-3 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2,3,6,7,12,12a-hexahydro-2-(2,2,2-trifluoroethyl)-, (6R,12aS)-rel-(9CI) (CA INDEX NAME)

Relative stereochemistry.

RN 171488-13-4 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-b)enzodioxol-5-yl)-

Prepared by Toby Port, STIC, Biotech Library 308-3534

2,3,6,7,12,12a-hexahydro-2-propyl-, (6R,12aS)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

RN 171488-14-5 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2,3,6,7,12,12a-hexahydro-2-(1-methylethyl)-, (6R,12aS)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

RN 171488-15-6 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2-cyclopropyl-2,3,6,7,12,12a-hexahydro-, (6R,12aS)-rel- (9CI) (CA INDEX NAME)

RN 171488-16-7 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2-butyl-2,3,6,7,12,12a-hexahydro-, (6R,12aS)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

RN 171488-17-8 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2-butyl-2,3,6,7,12,12a-hexahydro-, (6R,12aR)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

RN 171488-18-9 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2-(cyclopropylmethyl)-2,3,6,7,12,12a-hexahydro-, (6R,12aS)-rel- (9CI) (CA

INDEX NAME)

Relative stereochemistry.

RN171488-19-0 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-1,2-benzodioxol-5-yl)-1,2-benzodioxol-5-yl-1,2-benzodioxol2-cyclopentyl-2,3,6,7,12,12a-hexahydro-, (6R,12aS)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

RN

171488-20-3 CAPLUS
Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-CN 2-cyclohexyl-2,3,6,7,12,12a-hexahydro-, (6R,12aS)-rel- (9CI) (CA INDEX NAME)

RN 171488-21-4 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2,3,6,7,12,12a-hexahydro-2-(phenylmethyl)-, (6R,12aS)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

RN 171488-22-5 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2-[(4-fluorophenyl)methyl]-2,3,6,7,12,12a-hexahydro-, (6R,12aS)-rel- (9CI) (CA INDEX NAME)

RN 171488-76-9 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2,3,6,7,12,12a-hexahydro-2-(2-methylpropyl)-, (6R,12aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

RN 171488-77-0 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2-(cyclohexylmethyl)-2,3,6,7,12,12a-hexahydro-, (6R,12aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

RN 171488-86-1 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2,3,6,7,12,12a-hexahydro-2,10-dimethyl-, (6R,12aS)-rel- (9CI) (CA INDEX NAME)

RN 171488-87-2 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2-[(3,4-dimethoxyphenyl)methyl]-2,3,6,7,12,12a-hexahydro-, (6R,12aR)-(9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

RN 171488-91-8 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2,3,6,7,12,12a-hexahydro-2-(2-propynyl)-, (6R,12aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

RN 171488-92-9 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2-(1,3-benzodioxol-5-ylmethyl)-2,3,6,7,12,12a-hexahydro-, (6R,12aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

RN 171488-93-0 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2-[2-(3,4-dimethoxyphenyl)ethyl]-2,3,6,7,12,12a-hexahydro-, (6R-trans)-(9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

RN 171488-94-1 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2-(2-furanylmethyl)-2,3,6,7,12,12a-hexahydro-, (6R,12aR)- (9CI) (CA INDEX NAME)

RN 171488-95-2 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2,3,6,7,12,12a-hexahydro-2-(2-thienylmethyl)-, (6R,12aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

RN 171489-01-3 CAPLUS

CN 5H,14H-Pyrrolo[1'',2'':4',5']pyrazino[1',2':1,6]pyrido[3,4-b]indole-5,14-dione, 12-(1,3-benzodioxol-5-yl)-1,2,3,5a,6,11,12,14a-octahydro-, (5aR,12R,14aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

RN 171489-02-4 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2,3,6,7,12,12a-hexahydro-2,3-dimethyl-, (3R,6R,12aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

RN 171596-27-3 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2,3,6,7,12,12a-hexahydro-2-methyl-, (6R,12aS)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

RN 171596-28-4 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2,3,6,7,12,12a-hexahydro-2-methyl-, (6S,12aR)- (9CI) (CA INDEX NAME)

RN 171596-29-5 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2,3,6,7,12,12a-hexahydro-2-methyl-, (6R,12aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

RN 171596-30-8 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2,3,6,7,12,12a-hexahydro-2-(1-methylethyl)-, (6R,12aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

RN 171596-31-9 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-

Prepared by Toby Port, STIC, Biotech Library 308-3534

2-butyl-2,3,6,7,12,12a-hexahydro-, (6R,12aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

RN 171596-32-0 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2-cyclopentyl-2,3,6,7,12,12a-hexahydro-, (6R,12aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

RN 171596-36-4 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2,3,6,7,12,12a-hexahydro-, (6R,12aR)- (9CI) (CA INDEX NAME)

RN 171596-39-7 CAPLUS

CN 5H,14H-Pyrrolo[1'',2'':4',5']pyrazino[1',2':1,6]pyrido[3,4-b]indole-5,14-dione, 12-(1,3-benzodioxol-5-yl)-1,2,3,5a,6,11,12,14a-octahydro-, (5aR,12R,14aS)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

RN 171596-40-0 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2,3,6,7,12,12a-hexahydro-2,3-dimethyl-, (3S,6R,12aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

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L16 0 SEA FILE=CAOLD ABB=ON PLU=ON L10

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 Calculated physical property data is now available. See HELP PROPERTIES
 for more information. See STNote 27, Searching Properties in the CAS
 Registry File, for complete details:
 http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf
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                                                                (171596-29-5/RN)
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                   ANSWER 1 OF 1 REGISTRY COPYRIGHT 2002 ACS
 L3
 RN
                   171596-29-5 REGISTRY
                   Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-1,4-dione, 6-(1,3-benzodioxol-5-yl)-1,4-dioxol-6-(1,3-benzodioxol-6-yl)-1,4-dioxol-6-(1,3-benzodioxol-6-yl)-1,4-dioxol-6-(1,3-benzodioxol-6-yl)-1,4-dioxol-6-(1,3-benzodioxol-6-yl)-1,4-dioxol-6-(1,3-benzodioxol-6-yl)-1,4-dioxol-6-(1,3-benzodi
 CN
                    2,3,6,7,12,12a-hexahydro-2-methyl-, (6R,12aR)- (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
                   Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-1,4-dione, 6-(1,3-benzodioxol-6-yl)-1,4-dione, 6-(1,3-benzodioxol-6-yl)-1,4-dione, 6-(1,3-benzodioxol-6-yl)-1,4-dione, 6-(1,3-benzodioxol-6-yl)-1,4-dione, 6-(1,3-benzodioxol-6-yl)-1,4-dione, 6-(1,3-benzodioxol-6-yl)-1,4-dione, 6-(1,3-benzodioxol-6-yl)-1,4-dione, 6-(1,3-benzodioxol-6-yl)-1,4-dioxol-6-(1,3-benzodioxol-6-yl)-1,4-dioxol-6-(1,3-benzodioxol-6-yl)-1,4-dioxol-6-(1,3-benzodioxol-6-yl)-1,4-dioxol-6-(1,3-benzodioxol-6-yl)-1,4-dioxol-6-(1,3-benzodioxol-6-yl)-1,4-dioxol-6-(1,3-benzodi
                    2,3,6,7,12,12a-hexahydro-2-methyl-, (6R-trans)-
 OTHER NAMES:
                  Cialis
 CN
                   GF 196960
 CN
                   IC 351
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                   ICOS 351
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                   Tadalafil
 FS
                   STEREOSEARCH
 DR
                   240822-07-5, 282541-36-0
MF
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 SR
                   CA
                                                                   ADISINSIGHT, BIOSIS, BIOTECHNO, CA, CAPLUS, CIN, DRUGNL,
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                   STN Files:
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L4

1 171596-40-0/BI (171596-40-0/RN)

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L4 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2002 ACS

RN **171596-40-0** REGISTRY

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2,3,6,7,12,12a-hexahydro-2,3-dimethyl-, (3S,6R,12aR)- (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2,3,6,7,12,12a-hexahydro-2,3-dimethyl-, [3S-(3.alpha.,6.beta.,12a.alpha.)]-

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MF C23 H21 N3 O4

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8 REFERENCES IN FILE CA (1967 TO DATE) 8 REFERENCES IN FILE CAPLUS (1967 TO DATE)

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L5

1 304683-09-8/BI (304683-09-8/RN)

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L5 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2002 ACS

RN **304683-09-8** REGISTRY

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2,3,6,7,12,12a-hexahydro-2-methyl-(9CI) (CA INDEX NAME)

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MF C22 H19 N3 O4

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LC STN Files: CA, CAPLUS, DRUGPAT, DRUGUPDATES

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1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

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L6

1 304683-11-2/BI (304683-11-2/RN)

=> d ide

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RN 304683-11-2 REGISTRY

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2,3,6,7,12,12a-hexahydro-2,3-dimethyl- (9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C23 H21 N3 O4

SR CA

LC STN Files: CA, CAPLUS

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1 REFERENCES IN FILE CA (1967 TO DATE) 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

=> d ide

ANSWER 1 OF 1 REGISTRY COPYRIGHT 2002 ACS L7 RN 9068-52-4 REGISTRY Phosphodiesterase, guanosine cyclic 3',5'-phosphate (9CI) (CA INDEX NAME) CN OTHER NAMES: 3',5'-cGMP phosphodiesterase CN CN 3',5'-Cyclic GMP phosphodiesterase CN cGMP phosphodiesterase cGMP-binding cGMP-specific phosphodiesterase CN cGMP-dependent phosphodiesterase CN cGMP-specific cyclic nucleotide phosphodiesterase CN CN cGMP-specific phosphodiesterase Cyclic 3',5'-GMP phosphodiesterase CN Cyclic GMP phosphodiesterase CN Cyclic GMP-dependent phosphodiesterase CN CN Cyclic guanosine 3',5'-monophosphate phosphodiesterase Cyclic guanosine 3',5'-phosphate phosphodiesterase CN E.C. 3.1.4.35 CN CN Guanosine cyclic 3',5'-phosphate phosphodiesterase CN Guanylate phosphodiesterase CN Phosphodiesterase 6 CN Phosphodiesterase type 5 CN Phosphodiesterase V CN Phosphodiesterase VI Photoreceptor phosphodiesterase CN CN Type V cGMP-specific phosphodiesterase CN Type V phosphodiesterase MF Unspecified CI MAN ADISNEWS, AGRICOLA, ANABSTR, BIOBUSINESS, BIOSIS, BIOTECHNO, LC STN Files: CA, CAPLUS, CASREACT, CEN, CIN, EMBASE, IFICDB, IFIPAT, IFIUDB, PROMT,

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
1856 REFERENCES IN FILE CA (1967 TO DATE)

7 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

1867 REFERENCES IN FILE CAPLUS (1967 TO DATE)

=> file embase; d que 118 FILE 'EMBASE' ENTERED AT 14:58:53 ON 16 JUL 2002 COPYRIGHT (C) 2002 Elsevier Science B.V. All rights reserved.

FILE COVERS 1974 TO 11 Jul 2002 (20020711/ED)

EMBASE has been reloaded. Enter HELP RLOAD for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

L17 25 SEA FILE=EMBASE ABB=ON PLU=ON TARDANAFIL/CT L18 9 SEA FILE=EMBASE ABB=ON PLU=ON L17/MAJ

=> file wpid; d que 119 FILE 'WPIDS' ENTERED AT 14:59:16 ON 16 JUL 2002 COPYRIGHT (C) 2002 THOMSON DERWENT

FILE LAST UPDATED: 11 JUL 2002 <20020711/UP>
MOST RECENT DERWENT UPDATE 200244 <200244/DW>
DERWENT WORLD PATENTS INDEX SUBSCRIBER FILE, COVERS 1963 TO DATE

- >>> The BATCH option for structure searches has been
 enabled in WPINDEX/WPIDS and WPIX >>>
- >>> PATENT IMAGES AVAILABLE FOR PRINT AND DISPLAY >>>
- >>> FOR DETAILS OF THE PATENTS COVERED IN CURRENT UPDATES,
 SEE http://www.derwent.com/dwpi/updates/dwpicov/index.html <<<
- >>> FOR A COPY OF THE DERWENT WORLD PATENTS INDEX STN USER GUIDE,
 PLEASE VISIT:
 http://www.stn-international.de/training center/patents/stn guide.pdf <<<
- >>> FOR INFORMATION ON ALL DERWENT WORLD PATENTS INDEX USER
 GUIDES, PLEASE VISIT:
 http://www.derwent.com/userguides/dwpi guide.html <<</pre>
- L19 9 SEA FILE=WPIDS ABB=ON PLU=ON CIALIS OR TADALAFIL OR TARDANAFI L OR IC351 OR (IC OR ICOS) (W) 351

=> file biosis; d que 121
FILE 'BIOSIS' ENTERED AT 15:02:48 ON 16 JUL 2002
COPYRIGHT (C) 2002 BIOLOGICAL ABSTRACTS INC.(R)

FILE COVERS 1969 TO DATE. CAS REGISTRY NUMBERS AND CHEMICAL NAMES (CNs) PRESENT FROM JANUARY 1969 TO DATE.

RECORDS LAST ADDED: 10 July 2002 (20020710/ED)

L21

16 SEA FILE=BIOSIS ABB=ON PLU=ON CIALIS OR IC351 OR (IC OR ICOS) (W) (351) OR TADALAFIL OR TARDANAFIL OR GF196960 OR GF (W) (196960 OR 196 960)

=> file medline; d que 123 FILE 'MEDLINE' ENTERED AT 15:02:56 ON 16 JUL 2002

FILE LAST UPDATED: 13 JUL 2002 (20020713/UP). FILE COVERS 1958 TO DATE.

On June 9, 2002, MEDLINE was reloaded. See HELP RLOAD for details.

MEDLINE thesauri in the /CN, /CT, and /MN fields incorporate the MeSH 2002 vocabulary. Enter HELP THESAURUS for details.

THIS FILE CONTAINS CAS REGISTRY NUMBERS FOR EASY AND ACCURATE SUBSTANCE IDENTIFICATION.

L23 6 SEA FILE=MEDLINE ABB=ON PLU=ON IC351

=> dup rem 112 123 119 121 123 FILE 'CAPLUS' ENTERED AT 15:04:37 ON 16 JUL 2002 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS. COPYRIGHT (C) 2002 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'MEDLINE' ENTERED AT 15:04:37 ON 16 JUL 2002

FILE 'WPIDS' ENTERED AT 15:04:37 ON 16 JUL 2002 COPYRIGHT (C) 2002 THOMSON DERWENT

FILE 'BIOSIS' ENTERED AT 15:04:37 ON 16 JUL 2002 COPYRIGHT (C) 2002 BIOLOGICAL ABSTRACTS INC. (R) PROCESSING COMPLETED FOR L12 PROCESSING COMPLETED FOR L23 PROCESSING COMPLETED FOR L19 PROCESSING COMPLETED FOR L21

58 DUP REM L12 L23 L19 L21 L23 (10 DUPLICATES REMOVED) L25

ANSWERS '1-37' FROM FILE CAPLUS - Answers 1-37 previously
ANSWERS '38-43' FROM FILE MEDLINE phuchure search

ANSWER '44' FROM FILE WPIDS

ANSWERS '45-59' FROM FILE WPIDS ANSWERS '45-58' FROM FILE BIOSIS

=> d ibib ab 125 38-58

L25 ANSWER 38 OF 58 MEDLINE

DUPLICATE 6 MEDLINE

ACCESSION NUMBER:

2001335647 21296319

DOCUMENT NUMBER: TITLE:

PubMed ID: 11402584

AUTHOR:

SOURCE:

Oral drug therapy for erectile dysfunction. Padma-Nathan H; Giuliano F

CORPORATE SOURCE:

Department of Urology, Keck School of Medicine, University

of Southern California Beverly Hills, California, USA. UROLOGIC CLINICS OF NORTH AMERICA, (2001 May) 28 (2)

321-34. Ref: 39

Journal code: 0423221. ISSN: 0094-0143.

PUB. COUNTRY:

United States

Journal; Article; (JOURNAL ARTICLE)

Prepared by Toby Port, STIC, Biotech Library 308-3534

General Review; (REVIEW)

(REVIEW, TUTORIAL)

LANGUAGE: English

FILE SEGMENT: Abridged Index Medicus Journals; Priority Journals

ENTRY MONTH: 200106

ENTRY DATE: Entered STN: 20010702

Last Updated on STN: 20010702 Entered Medline: 20010628

AB Oral drugs are a well-established, first-line therapy for erectile dysfunction. As a result of the success of sildenafil, a plethora of new drugs for erectile dysfunction are on the horizon. Apomorphine and IC351 are in late phase III development. Vardenafil (Bayer, New Haven, CT), a PDE5 inhibitor, and the combination of yohimbine and L-arginine (NitroMed, Boston, MA) are in early phase III development. Early clinical and preclinical studies are investigating new phosphodiesterase inhibitors, cyclic AMP activators, alpha-adrenergic antagonists, dopamine agonists, melanocyte-stimulating hormone, potassium channel modulators, endothelin antagonists, and new nitric oxide donors. The future is bright for this infant field of sexual pharmacotherapy.

L25 ANSWER 39 OF 58 MEDLINE

ACCESSION NUMBER: 2002117405 MEDLINE

DOCUMENT NUMBER: 21838816 PubMed ID: 11850737

TITLE: IC351 (tadalafil, Cialis): update on clinical

experience.

AUTHOR: Porst H

CORPORATE SOURCE: Urological practice, Hamburg, Germany.. Porst20354@aol.com

SOURCE: INTERNATIONAL JOURNAL OF IMPOTENCE RESEARCH, (2002 Feb) 14

Suppl 1 S57-64. Ref: 12

Journal code: 9007383. ISSN: 0955-9930.

PUB. COUNTRY: England: United Kingdom

Journal; Article; (JOURNAL ARTICLE)

General Review; (REVIEW)

(REVIEW LITERATURE)

LANGUAGE: English

FILE SEGMENT: Priority Journals

ENTRY MONTH: 200206

ENTRY DATE: Entered STN: 20020220

Last Updated on STN: 20020613 Entered Medline: 20020612

AB IC351 (tadalafil, trade name Cialis) is a new representative compound of the second generation of selective phosphodiesterase 5 (PDE-5) inhibitors. The selectivity ratio vs PDE-5 is more than 10 000 for PDE-1 through PDE-4 and PDE-7 through PDE-10 and 780 for PDE-6. In the European daily-dosing trial, the efficacy rates were up to 93% for successful intercourses with completion in the 50-mg dose in patients with mild to moderate erectile dysfunction (ED). In two different dose-ranging studies with 2-25 mg taken as needed, efficacy rates of up to 88% improvement in erections and up to 73% successful intercourses with completion were achieved. In a placebo-controlled, fixed-dose (10- and 20-mg) trial in diabetic patients, improved erections of 56% and 64% were reported compared with 25% after placebo. Drug-related adverse effects, with headache in up to 23% of patients (placebo, up to 17%), dyspepsia in up to 11% (placebo, up to 7%), back pain in up to 4.7% (placebo, 0%), and myalgia in up to 4.1% (placebo, up to 2.4%), were mostly mild to moderate. Neither drug-related serious cardiovascular adverse events nor color vision disturbances were encountered. The long half-life (>17 h), with a comfortably long window of opportunity, releases couples from the need to plan sexual activities and therefore provides the highest amount of spontaneity for sexual activities.

L25 ANSWER 40 OF 58 MEDLINE

ACCESSION NUMBER: 2002073964 MEDLINE

PubMed ID: 11799971 DOCUMENT NUMBER: 21658223

TITLE: Towards optimal ED management: educational forum - II.

AUTHOR:

CORPORATE SOURCE: Division of Urology, Department of Surgery, University of

Western Ontario, London, Ontario.

Can J Urol, (2001 Dec) 8 (6) 1419-20. SOURCE:

Journal code: 9515842. ISSN: 1195-9479.

PUB. COUNTRY: Canada

Conference; Conference Article; (CONGRESSES)

LANGUAGE: English

Priority Journals FILE SEGMENT:

ENTRY MONTH: 200202

Entered STN: 20020125 ENTRY DATE:

> Last Updated on STN: 20020206 Entered Medline: 20020205

L25 ANSWER 41 OF 58 MEDLINE

2001342867 MEDLINE ACCESSION NUMBER:

21298873 PubMed ID: 11406522 DOCUMENT NUMBER:

Importance of NF-kappaB in rheumatoid synovial tissues: in TITLE:

situ NF-kappaB expression and in vitro study using cultured

synovial cells.

Yamasaki S; Kawakami A; Nakashima T; Nakamura H; Kamachi M; AUTHOR:

Honda S; Hirai Y; Hida A; Ida H; Migita K; Kawabe Y; Koji

T; Furuichi I; Aoyagi T; Eguchi K

CORPORATE SOURCE: The First Department of Internal Medicine, Nagasaki

University School of Medicine, 1-7-1 Sakamoto, Nagasaki,

Japan.

ANNALS OF THE RHEUMATIC DISEASES, (2001 Jul) 60 (7) 678-84. SOURCE:

Journal code: 0372355. ISSN: 0003-4967.

England: United Kingdom PUB. COUNTRY:

Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: English

Priority Journals FILE SEGMENT:

200107 ENTRY MONTH:

ENTRY DATE: Entered STN: 20010716

> Last Updated on STN: 20010716 Entered Medline: 20010712

OBJECTIVES: To examine whether inhibition of NF-kappaB induces apoptosis AB of human synovial cells stimulated by tumour necrosis factor alpha (TNFalpha), interleukin 1beta (ILlbeta), and anti-Fas monoclonal antibody (mAb). METHODS: The expression of proliferating cell nuclear antigen (PCNA), NF-kappaB, and the presence of apoptotic synovial cells were determined in synovial tissues. Apoptosis of cultured synovial cells was induced by inhibition of NF-kappaB nuclear translocation by Z-Leu-Leu-Leu-aldehyde (LLL-CHO). The activation of caspase-3 and expression of XIAP and cIAP2 in synovial cells in LLL-CHO induced apoptosis was also examined. RESULTS: Abundant PCNA+ synovial cells were found in rheumatoid arthritis (RA) synovial tissue, though a few apoptotic synovial cells were also detected in the RA synovial tissues. Nuclear NF-kappaB was expressed in RA synovial cells. Electrophoretic mobility shift assay showed that treatment of cells with TNFalpha or ILlbeta significantly stimulated nuclear NF-kappaB activity. A small number of apoptotic synovial cells expressing intracellular active caspase-3 were found after treatment of cells with LLL-CHO. Although treatment of RA synovial cells with TNFalpha or ILlbeta alone did not induce apoptosis, apoptosis induced by LLL-CHO and caspase-3 activation were clearly enhanced in TNFalpha or ILlbeta stimulated synovial cells compared with unstimulated synovial cells. Furthermore, induction of apoptosis of

synovial cells with caspase-3 activation by anti-Fas mAb was clearly increased by LLL-CHO. The expression of cIAP2 and XIAP in synovial cells may not directly influence the sensitivity of synovial cells to apoptosis induced by LLL-CHO. CONCLUSION: The results suggest that NF-kappaB inhibition may be a potentially important therapeutic approach for RA by correcting the imbalance between apoptosis and proliferation of synovial cells in RA synovial tissue.

L25 ANSWER 42 OF 58 MEDLINE

ACCESSION NUMBER: 2001382350 MEDLINE

DOCUMENT NUMBER: 21213761 PubMed ID: 11313831

On-demand IC351 (Cialis) enhances erectile TITLE:

function in patients with erectile dysfunction.

AUTHOR: Padma-Nathan H; McMurray J G; Pullman W E; Whitaker J S;

Saoud J B; Ferguson K M; Rosen R C

Keck School of Medicine, University of Southern California, CORPORATE SOURCE:

Los Angeles, California 90212, USA. (IC351 On-Demand Dosing

Study Group).

INTERNATIONAL JOURNAL OF IMPOTENCE RESEARCH, (2001 Feb) 13 SOURCE:

(1) 2-9.

Journal code: 9007383. ISSN: 0955-9930.

PUB. COUNTRY: England: United Kingdom

(CLINICAL TRIAL)

Journal; Article; (JOURNAL ARTICLE)

(MULTICENTER STUDY)

(RANDOMIZED CONTROLLED TRIAL)

LANGUAGE: English

FILE SEGMENT: Priority Journals

ENTRY MONTH: 200107

Entered STN: 20010709 ENTRY DATE:

Last Updated on STN: 20010709

Entered Medline: 20010705

AΒ IC351 (Cialis) is a selective inhibitor of PDE5. The efficacy and safety of on-demand dosing of IC351 in men with erectile dysfunction was assessed in a multicenter, double-blind, placebo-controlled study. One hundred seventy-nine men (mean age: 56 y) were randomized to receive placebo or IC351 at doses of 2, 5, 10 or 25 mg, taken on demand over a 3-week period. The primary endpoints were change from baseline in responses to Questions 3 (Q3) and 4 (Q4) of the International Index of Erectile Function (IIEF). IC351 significantly improved IIEF Q3 scores at all doses vs placebo (P < or =0.003). IC351 also significantly improved IIEF Q4 scores in all but the 2 mg group (P < or =0.0003). No significant changes in laboratory values, ECGs, or blood pressure were observed. The most common adverse events were headache and dyspepsia. The conclusion of this study was that on-demand IC351 at doses up to 25 mg was well tolerated and significantly improved erectile function.

L25 ANSWER 43 OF 58 MEDLINE

ACCESSION NUMBER: 2002005986 MEDLINE

PubMed ID: 11122955 DOCUMENT NUMBER: 21064306

Recent developments in male sexual dysfunction. TITLE:

AUTHOR: Shabsigh R

CORPORATE SOURCE: Department of Urology, Columbia-Presbyterian Medical

Center, 161 Fort Washington Avenue, New York, NY 10032,

USA.. rs66@columbia.edu

Curr Psychiatry Rep, (2000 Jun) 2 (3) 196-200. Ref: 8 SOURCE:

Journal code: 100888960. ISSN: 1523-3812.

PUB. COUNTRY: United States

Journal; Article; (JOURNAL ARTICLE)

General Review; (REVIEW)

(REVIEW, TUTORIAL)

LANGUAGE:

English

FILE SEGMENT:

Priority Journals

ENTRY MONTH:

200204

ENTRY DATE:

Entered STN: 20020121

Last Updated on STN: 20020501 Entered Medline: 20020430

The past few years have witnessed major developments in the management of AΒ male sexual dysfunction. The introduction of the first efficacious and safe oral medication (sildenafil) resulted in the expansion of the patient base and, the change in health care delivery, with erectile dysfunction (ED) entering the primary care physician's practice. New guidelines for the diagnosis and treatment of ED have been developed, including the Process of Care in the USA and the 1st International Consultation on ED sponsored by the World Health Organization. Well-defined algorithms for diagnosis and treatment have been adopted. These recent developments have brought up challenging issues, including the cardiovascular safety of sexual activity, societal changes, internet prescriptions, definition of the patient, expansion of clinical and laboratory research, rise of interest in female sexual dysfunction, and a significant economic impact. The recent developments in male sexual dysfunction continue with the study of new oral medications. Some of these new medications, such as sublingual apomorphine, have a central mode of action, whereas others, such as the phosphodiesterase inhibitor IC351, have a selective peripheral vasodilation-enhancing action.

L25 ANSWER 44 OF 58 WPIDS (C) 2002 THOMSON DERWENT

ACCESSION NUMBER:

2000-572170 [53] WPIDS

DOC. NO. CPI:

C2000-170623

TITLE:

New nitrosated and nitrosylated prostaglandins, useful for treating or preventing e.g. sexual dysfunction in males and females, cerebrovascular disorders and

glaucoma.

DERWENT CLASS:

B05

INVENTOR(S):

GARVEY, D S; GASTON, R D; LETTS, G L; SAENZ DE TEJADA, I;

TAM, S W; WORCEL, M

PATENT ASSIGNEE(S):

(NITR-N) NITROMED INC 90

COUNTRY COUNT:

PATENT INFORMATION:

PATENT	NO	KIND	DATE	WEEK	LA	PG

WO 2000051978 A1 20000908 (200053)* EN 82

RW: AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW NL OA PT SD SE SL SZ TZ UG ZW

W: AE AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE DK DM EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL

TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

AU 2000037136 A 20000921 (200065)

APPLICATION DETAILS:

111111111111	KIND	APPLICATION	DATE
WO 20000519	78 A1	WO 2000-US5286 AU 2000-37136	

FILING DETAILS:

PATENT NO KIND

PATENT NO

```
AU 2000037136 A Based on
                                         WO 200051978
PRIORITY APPLN. INFO: US 1999-138502P 19990609; US 1999-122273P
                       19990301
     WO 200051978 A UPAB: 20001023
AB
     NOVELTY - Nitrosated and nitrosylated prostaglandins (I) and compositions
     comprising them are new, also compositions comprising a prostaglandin and
     S-nitrosothiol compound.
          DETAILED DESCRIPTION - Nitrosated and nitrosylated prostaglandins of
     formula (I) are new:
          bonds a', b', c', d' = single or double bonds;
          R1 = -OD1 \text{ or } C1;
     R2, R8 = H; or
          R1+R2 = =CH2 \text{ or } =0;
          R3, R4 = H, -OD1 or Me;
          R5, R6 = H, -OD1, Me, OMe or -CH=CH2;
     R7
        = H or OD1;
          R9 = H or absent when the C to which it is attached is the central
     carbon of an allene; or
          R8+R9+attached chain atoms = a substituted benzene ring provided that
     R1 is O which is attached to the C at the position of the benzene ring
     defined by B';
          A = -CH=, -CH2-, -S- or -O-;
          B' = -CH = , -CH2 - , -S - or -C(0) - ;
          X = -CH2OR11, -C(O)OR11 \text{ or } -C(O)N(D1)R12;
          R11 = D1, 1-10C alkyl or a group of formula (i):
          R12 = -S(0) 2CH3 \text{ or } -C(0) CH3;
          Z' = ethyl, butyl, hexyl, benzyl, -CH2-O-CH2-CH3,
     -CH(CH3)-(CH2)3-CH3 or a group of formula (ii) or (iii):
     R13 = H \text{ or } C1;
          D1 = H or D; provided that at least 1 D1 is D;
     D = Q \text{ or } K;
             = -NO or NO2;
          Q
          K = -Wa-Eb-(C(Re)(Rf))p-Ec-(C(Re)(Rf))x-Wd-(C(Re)(Rf))y-Wi-Ej-Wg-
     (C(Re)(Rf))z-T-Q;
          a, b, c, d, g, i, j = 0-3;
          p, x, y, z = 0-10;
          E = -T-, alkyl, aryl, (C(Re)(Rf))h-,
          W = -C(0)-, -C(S)- or as defined for E;
     h = 1 10;
     q = 1-5;
          Re, Rf = H, alkyl, cycloalkoxy, halo, OH, hydroxyalkyl, alkoxyalkyl,
     aryl-heterocyclic, alkylaryl, cycloalkylalkyl, heterocyclic-alkyl, alkoxy,
     haloalkoxy, NH2, alkylamino, dialkylamino, arylamino, diarylamino,
     alkylarylamino, alkoxyhaloalkyl, haloalkoxy, sulfonic acid, sulfonic
     ester, alkylsulfonic acid, arylsulfonic acid, arylalkoxy, alkylthio,
     arylthio, cycloalkylthio, cycloalkenyl, CN, aminoalkyl, aminoaryl, aryl,
     arylalkyl, alkylaryl, carboxamido, alkylcarboxamido, arylcarboxamido,
     amidyl, carboxyl, carbamoyl, alkylcarboxylic acid, arylcarboxylic acid,
     alkylcarbonyl, arylcarbonyl, ester, carboxylic ester, alkylcarboxylic ester, arylcarboxylic ester, haloalkoxy, sulfonamido, alkylsulfonamido,
     arylsulfonamido, sulfonic ester, a urea, phosphoryl, nitro, -T-Q or
     -(C(Re)(Rf))k-T-Q; or
          Re+Rf+attached C atoms = carbonyl, methanthial, heterocyclic,
     cycloalkyl or a bridged cycloalkyl;
     k = 1-3;
          T = a \text{ covalent bond, carbonyl, O, } -S(O)o- \text{ or } -N(Ra)Ri-;
       = 0-2;
          Ra = a lone pair of electrons, H or alkyl;
              = H, alkyl, aryl, alkylcarboxylic acid, arylcarboxylic acid,
```

alkylcarboxylic ester, arylcarboxylic ester, alkylcarboxamido, arylcarboxamido, alkylaryl, alkylsulfinyl, alkylsulfonyl, arylsulfinyl, arylsulfonyl, sulfonamido, carboxamido, carboxylic ester, amino alkyl, amino aryl, -CH2-C(T-Q)(Re)(Rf) or -(N2O2)-M+;

M+ = an organic or inorganic cation;

provided that when Ri is -CH2-C(T-Q)(Re)(Rf) or -(N2O2) M+; or Re or Rf are T-Q or (C(Re)(Rf))k-T-Q, then T-Q can be H, alkyl, alkoxy, alkoxyalkyl, aminoalkyl, OH, heterocyclic or aryl; and provided that when X is -C(0)OD1 and D1 is K, then K is not alkyl or cycloalkyl mononitrate; benzoic acid substituted benzyloxy mononitrate; ethylene glycol mononitrate; polyethylene glycol mononitrate; the regioisomeric esters of 'qlycerol dinitrate and oligomers as disclosed in WO9858910.

INDEPENDENT CLAIMS are included for the following:

- (a) compositions and kits comprising (I) and at least 1 compound that donates, transfers or releases nitric oxide, or induces the production of endogenous nitric oxide or endothelium-derived relaxing factor, or is a substrate for nitric oxide synthase, and/or at least 1 vasoactive agent; and
- (b) compositions and kits comprising at least 1 prostaglandin and at least 1 S-nitrosothiol compound, useful for treating sexual dysfunction, a cerebrovascular disorder, cardiovascular disorder, benign prostatic hyperplasia, organ transplants, glaucoma or peptic ulcer, or for inducing an abortion.

ACTIVITY - Vasotropic; Cerebroprotective; Cardiant; Cytostatic; Ophthalmological; Antiulcer; Gynecological; Relaxant.

MECHANISM OF ACTION - Smooth muscle relaxant; Nitric oxide donor; Endothelium-derived relaxing factor agonist.

USE - For treating or preventing sexual dysfunction in males or females, treating a cerebrovascular disorder, cardiovascular disorder, benign prostatic hyperplasia, organ transplants, glaucoma or peptic ulcer, or for inducing an abortion (all claimed).

ADVANTAGE - The combination of a prostaglandin and a S-nitrosothiol gives synergistic results. Dwg.0/4

L25 ANSWER 45 OF 58 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.

ACCESSION NUMBER: DOCUMENT NUMBER:

2002:355438 BIOSIS PREV200200355438

TITLE:

Efficacy and safety of tadalafil in men with

erectile dysfunction with and without hypertension.

AUTHOR(S):

Padma-Nathan, H. (1); Brock, G.; McMahon, C.; Chen, K. K.; Anglin, G.; Costigan, T.; Shen, W.; Watkins, V.; Whitaker,

J. S.

CORPORATE SOURCE:

(1) Keck School of Medicine, University of Southern

California, Beverly Hills, CA USA

SOURCE:

American Journal of Hypertension, (April, 2002) Vol. 15, No. 4 Part 2, pp. 143A-144A. http://www.ajh-us.org. print. Meeting Info.: Seventeenth Annual Scientific Meeting of the American Society of Hypertension New York, N.Y., USA May

14-18, 2002 ISSN: 0895-7061.

DOCUMENT TYPE:

Conference English

LANGUAGE:

L25 ANSWER 46 OF,58 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.

ACCESSION NUMBER:

2002:355428 BIOSIS PREV200200355428

DOCUMENT NUMBER: TITLE:

Blood pressure and cardiovascular effects of

tadalafil, a new PDE5 inhibitor.

AUTHOR(S):

Hutter, A. M. (1); Kloner, R. A.; Watkins, V.; Costigan,

T.; Bedding, A.; Mitchell, M.; Emmick, J.

CORPORATE SOURCE: (1) Massachusetts General Hospital, Harvard Medical School,

Boston, MA USA

SOURCE: American Journal of Hypertension, (April, 2002) Vol. 15,

> No. 4 Part 2, pp. 140A. http://www.ajh-us.org. print. Meeting Info.: Seventeenth Annual Scientific Meeting of the American Society of Hypertension New York, N.Y., USA May

14-18, 2002 ISSN: 0895-7061.

DOCUMENT TYPE: Conference English LANGUAGE:

BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC. L25 ANSWER 47 OF 58

ACCESSION NUMBER: 2001:449004 BIOSIS PREV200100449004 DOCUMENT NUMBER:

CialisTM (IC351) as a treatment of erectile TITLE:

dysfunction in diabetic men.

Saenz De Tejada, Inigo (1); Fredlund, Paul (1); Anglin, AUTHOR(S):

Greg (1); Pullman, Bill (1); Emmick, Jeff (1)

CORPORATE SOURCE: (1) Madrid Spain

Diabetes, (June, 2001) Vol. 50, No. Supplement 2, pp. A425. SOURCE:

print.

Meeting Info.: 61st Scientific Sessions of the American Diabetes Association Philadelphia, Pennsylvania, USA June

22-26, 2001 ISSN: 0012-1797.

DOCUMENT TYPE: Conference English LANGUAGE: SUMMARY LANGUAGE: English

BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC. L25 ANSWER 48 OF 58

2001:380171 BIOSIS ACCESSION NUMBER: PREV200100380171 DOCUMENT NUMBER:

CialisTM (IC351) provides prompt response and TITLE:

extended period of responsiveness for the treatment of men

with erectile dysfunction (ED.

Padma-Nathan, Harin (1); Rosen, Raymond C.; Shabsigh, AUTHOR(S):

Ridwan; Saikali, Khalil; Watkins, Vish S.; Pullman, Bill

(1) Los Angeles, CA USA CORPORATE SOURCE:

SOURCE:

Journal of Urology, (May, 2001) Vol. 165, No. 5 Supplement,

pp. 224. print.

Meeting Info.: Annual Meeting of the American Urological Association, Inc. Anaheim, California, USA June 02-07, 2001

ISSN: 0022-5347.

DOCUMENT TYPE: Conference English LANGUAGE: SUMMARY LANGUAGE: English

L25 ANSWER 49 OF 58 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.

ACCESSION NUMBER: 2001:381536 BIOSIS DOCUMENT NUMBER: PREV200100381536

Cellular localisation of phosphodiesterase type 11 (PDE11) TITLE:

in human corpus cavernosum and the contribution of PDE11

inhibition on nerve-stimulated relaxation.

Baxendale, Rhona W. (1); Wayman, Christopher P. (1); AUTHOR(S):

Turner, Leigh (1); Phillips, Stephen C. (1)

CORPORATE SOURCE: (1) Sandwich UK

Journal of Urology, (May, 2001) Vol. 165, No. 5 Supplement, SOURCE:

pp. 223-224. print.

Meeting Info.: Annual Meeting of the American Urological Association, Inc. Anaheim, California, USA June 02-07, 2001

ISSN: 0022-5347.

Conference DOCUMENT TYPE: LANGUAGE: English SUMMARY LANGUAGE: English

L25 ANSWER 50 OF 58 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.

2001:262700 BIOSIS ACCESSION NUMBER: PREV200100262700 DOCUMENT NUMBER:

CialisTM (IC351): Effective and well-tolerated TITLE:

treatment for ED.

AUTHOR(S): Brock, G. (1); Iglesias, J.; Toulouse, K.; Ferguson, K.;

Pullman, W.; Anglin, G.

CORPORATE SOURCE: (1) Univ W Ontario, London, ON Canada

Journal of Andrology, (May June, 2001) No. Supplement, pp. SOURCE:

185. print.

Meeting Info.: VIIth International Congress of Andrology

Montreal, Canada June 15-19, 2001

ISSN: 0196-3635.

DOCUMENT TYPE: Conference LANGUAGE: English English SUMMARY LANGUAGE:

BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC. L25 ANSWER 51 OF 58

ACCESSION NUMBER: 2001:389604 BIOSIS PREV200100389604 DOCUMENT NUMBER:

Efficacy and safety of IC351 treatment for ED. TITLE:

Brock, G. (1); Iglesias, J.; Toulouse, K.; Ferguson, K.; AUTHOR(S):

Pullman, W.; Anglin, G.

CORPORATE SOURCE: (1) Univ. of W. Ontario, London, ON Canada

European Urology, (March, 2001) Vol. 39, No. Suppl. 5, pp. SOURCE:

106. print.

Meeting Info.: XVIth Congress of the European Association

of Urology Geneva, Switzerland April 07-10, 2001

ISSN: 0302-2838.

DOCUMENT TYPE: Conference LANGUAGE: English English SUMMARY LANGUAGE:

L25 ANSWER 52 OF 58 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.

ACCESSION NUMBER: 2001:391998 BIOSIS PREV200100391998 DOCUMENT NUMBER:

IC351 enhances NO-mediated relaxation of human TITLE: arterial and trabecular penile smooth muscle.

Angulo, J. (1); Gadau, M.; Fernandez, A.; Gabancho, S.; AUTHOR(S):

Cuevas, P.; Martins, T.; Florio, V.; Ferguson, K.; Saenz De

Tejada, I.

CORPORATE SOURCE: (1) Hospital Ramon y Cajal, Madrid Spain

European Urology, (March, 2001) Vol. 39, No. Suppl. 5, pp. SOURCE:

106. print.

Meeting Info.: XVIth Congress of the European Association

of Urology Geneva, Switzerland April 07-10, 2001

ISSN: .0302-2838.

DOCUMENT TYPE: Conference LANGUAGE: English SUMMARY LANGUAGE: English

BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC. L25 ANSWER 53 OF 58

2001:375151 BIOSIS ACCESSION NUMBER: PREV200100375151 DOCUMENT NUMBER:

TITLE: The effect of on-demand IC351 treatment of erectile dysfunction in men with diabetes.

Saenz De Tejada, Inigo (1); Emmick, J.; Anglin, G.; AUTHOR(S):

Fredlund, P.; Pullman, W.

CORPORATE SOURCE: (1) Hospital Ramon y Cajal, Madrid Spain

SOURCE: European Urology, (March, 2001) Vol. 39, No. Suppl. 5, pp.

16. print.

Meeting Info.: XVIth Congress of the European Association

of Urology Geneva, Switzerland April 07-10, 2001

ISSN: 0302-2838.

DOCUMENT TYPE: Conference LANGUAGE: English English SUMMARY LANGUAGE:

BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC. L25 ANSWER 54 OF 58

ACCESSION NUMBER: 2000:211709 BIOSIS DOCUMENT NUMBER: PREV200000211709

TITLE: Daily and on-demand IC351 treatment of erectile

dysfunction.

AUTHOR(S): Giuliano, Francois (1); Porst, Hartmut; Padma-Nathan, Harin; Saoud, Jay; Ferguson, Kenneth; Whitaker, Steven;

Pullman, William; Rosen, Raymond

CORPORATE SOURCE: (1) Bicetre France

Journal of Urology, (April, 2000) Vol. 163, No. 4 Suppl., SOURCE:

pp. 201.

Meeting Info.: 95th Annual Meeting of the American

Urological Association, Inc. Atlanta, Georgia, USA April

29, 2000-May 04, 1999

ISSN: 0022-5347.

DOCUMENT TYPE: Conference LANGUAGE: English SUMMARY LANGUAGE: English

BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC. L25 ANSWER 55 OF 58

ACCESSION NUMBER: 2000:356087 BIOSIS DOCUMENT NUMBER: PREV200000356087

TITLE: On-demand treatment of erectile dysfunction with

AUTHOR(S): Padma-Nathan, Harin (1); McMurray, James; Saoud, Jay;

Ferguson, Kenneth; Pullman, William; Whitaker, Steven;

Rosen, Raymond

(1) Male Clinic, University of Southern California, Santa CORPORATE SOURCE:

Monica, CA USA

European Urology, (March, 2000) Vol. 37, No. Suppl. 2, pp. SOURCE:

80. print.

Meeting Info.: XVth Congress of the European Association of

Urology Brussels, Belgium April 12-15, 2000

ISSN: 0302-2838.

DOCUMENT TYPE: Conference English LANGUAGE:

English SUMMARY LANGUAGE:

BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC. L25 ANSWER 56 OF 58

2000:356088 BIOSIS ACCESSION NUMBER: DOCUMENT NUMBER: PREV200000356088

TITLE: Daily IC351 treatment of erectile dysfunction. Giuliano, Francois (1); Meuleman, Eric; Saoud, Jay; AUTHOR(S):Ferguson, Kenneth; Whitaker, Steven; Porst, Hartmut

(1) Department of Urology, University Hospital of Bicetre, CORPORATE SOURCE:

Le Kremlin France

European Urology, (March, 2000) Vol. 37, No. Suppl. 2, pp. SOURCE:

80. print.

Meeting Info.: XVth Congress of the European Association of

Urology Brussels, Belgium April 12-15, 2000

L21

L25

16 SEA FILE=BIOSIS ABB=ON PLU=ON CIALIS OR IC351 OR (IC OR ICOS) (W) (351) OR TADALAFIL OR TARDANAFIL OR GF196960 OR GF (W) (196960 OR 196 960)

=> file medline; d que 123 FILE 'MEDLINE' ENTERED AT 15:02:56 ON 16 JUL 2002

FILE LAST UPDATED: 13 JUL 2002 (20020713/UP). FILE COVERS 1958 TO DATE.

On June 9, 2002, MEDLINE was reloaded. See HELP RLOAD for details.

MEDLINE thesauri in the /CN, /CT, and /MN fields incorporate the MeSH 2002 vocabulary. Enter HELP THESAURUS for details.

THIS FILE CONTAINS CAS REGISTRY NUMBERS FOR EASY AND ACCURATE SUBSTANCE IDENTIFICATION.

L23 6 SEA FILE=MEDLINE ABB=ON PLU=ON IC351

=> dup rem 123 119 121 123 FILE 'MEDLINE' ENTERED AT 15:03:25 ON 16 JUL 2002

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PROCESSING COMPLETED FOR L19
PROCESSING COMPLETED FOR L21
L24 30 DUP REM L23 L19 L21 L23 (1 DUPLICATE REMOVED)

ANSWERS '1-6' FROM FILE MEDLINE ANSWERS '7-15' FROM FILE WPIDS ANSWERS '16-30' FROM FILE BIOSIS

=> dup rem 112 123 119 121 123

FILE 'CAPLUS' ENTERED AT 15:04:37 ON 16 JUL 2002

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FILE 'WPIDS' ENTERED AT 15:04:37 ON 16 JUL 2002 COPYRIGHT (C) 2002 THOMSON DERWENT

FILE 'BIOSIS' ENTERED AT 15:04:37 ON 16 JUL 2002 COPYRIGHT (C) 2002 BIOLOGICAL ABSTRACTS INC.(R) PROCESSING COMPLETED FOR L12 PROCESSING COMPLETED FOR L23 PROCESSING COMPLETED FOR L19 PROCESSING COMPLETED FOR L21

58 DUP REM L12 L23 L19 L21 L23 (10 DUPLICATES REMOVED)
ANSWERS '1-37' FROM FILE CAPLUS
ANSWERS '38-43' FROM FILE MEDLINE
ANSWER '44' FROM FILE WPIDS

ANSWERS '45-58' FROM FILE BIOSIS

=> d ibib ab 125 38-58

SOURCE:

L25 ANSWER 38 OF 58 MEDLINE DUPLICATE 6

ACCESSION NUMBER: 2001335647 MEDLINE

DOCUMENT NUMBER: 21296319 PubMed ID: 11402584

TITLE: Oral drug therapy for erectile dysfunction.

AUTHOR: Padma-Nathan H; Giuliano F

CORPORATE SOURCE: Department of Urology, Keck School of Medicine, University

of Southern California Beverly Hills, California, USA. UROLOGIC CLINICS OF NORTH AMERICA, (2001 May) 28 (2)

321-34. Ref: 39

Journal code: 0423221. ISSN: 0094-0143.

PUB. COUNTRY: United States

Journal; Article; (JOURNAL ARTICLE)

General Review; (REVIEW)

(REVIEW, TUTORIAL)

LANGUAGE: English

FILE SEGMENT: Abridged Index Medicus Journals; Priority Journals

ENTRY MONTH: 200106

ENTRY DATE: Entered STN: 20010702

Last Updated on STN: 20010702 Entered Medline: 20010628

Oral drugs are a well-established, first-line therapy for erectile dysfunction. As a result of the success of sildenafil, a plethora of new drugs for erectile dysfunction are on the horizon. Apomorphine and IC351 are in late phase III development. Vardenafil (Bayer, New Haven, CT), a PDE5 inhibitor, and the combination of yohimbine and L-arginine (NitroMed, Boston, MA) are in early phase III development. Early clinical and preclinical studies are investigating new phosphodiesterase inhibitors, cyclic AMP activators, alpha-adrenergic antagonists, dopamine agonists, melanocyte-stimulating hormone, potassium channel modulators, endothelin antagonists, and new nitric oxide donors. The future is bright for this infant field of sexual pharmacotherapy.

L25 ANSWER 39 OF 58 MEDLINE

ACCESSION NUMBER: 2002117405 MEDLINE

DOCUMENT NUMBER: 21838816 PubMed ID: 11850737

TITLE: IC351 (tadalafil, Cialis): update on clinical

experience.

AUTHOR: Porst H

CORPORATE SOURCE: Urological practice, Hamburg, Germany.. Porst20354@aol.com

SOURCE: INTERNATIONAL JOURNAL OF IMPOTENCE RESEARCH, (2002 Feb) 14

Suppl 1 S57-64. Ref: 12

Journal code: 9007383. ISSN: 0955-9930.

PUB. COUNTRY: England: United Kingdom

Journal; Article; (JOURNAL ARTICLE)

General Review; (REVIEW)

(REVIEW LITERATURE)

LANGUAGE: English

FILE SEGMENT: Priority Journals

ENTRY MONTH: 200206

ENTRY DATE: Entered STN: 20020220

Last Updated on STN: 20020613 Entered Medline: 20020612

AB IC351 (tadalafil, trade name Cialis) is a new representative compound of the second generation of selective phosphodiesterase 5 (PDE-5) inhibitors. The selectivity ratio vs PDE-5 is more than 10 000 for PDE-1 through PDE-4 and PDE-7 through PDE-10 and 780 for PDE-6. In the European daily-dosing trial, the efficacy rates were up to 93% for successful

intercourses with completion in the 50-mg dose in patients with mild to moderate erectile dysfunction (ED). In two different dose-ranging studies with 2-25 mg taken as needed, efficacy rates of up to 88% improvement in erections and up to 73% successful intercourses with completion were achieved. In a placebo-controlled, fixed-dose (10- and 20-mg) trial in diabetic patients, improved erections of 56% and 64% were reported compared with 25% after placebo. Drug-related adverse effects, with headache in up to 23% of patients (placebo, up to 17%), dyspepsia in up to 11% (placebo, up to 7%), back pain in up to 4.7% (placebo, 0%), and myalgia in up to 4.1% (placebo, up to 2.4%), were mostly mild to moderate. Neither drug-related serious cardiovascular adverse events nor color vision disturbances were encountered. The long half-life (>17 h), with a comfortably long window of opportunity, releases couples from the need to plan sexual activities and therefore provides the highest amount of spontaneity for sexual activities.

L25 ANSWER 40 OF 58 MEDLINE

ACCESSION NUMBER: 2002073964 MEDLINE

DOCUMENT NUMBER: 21658223 PubMed ID: 11799971

TITLE: Towards optimal ED management: educational forum - II.

AUTHOR: Brock G

CORPORATE SOURCE: Division of Urology, Department of Surgery, University of

Western Ontario, London, Ontario.

SOURCE: Can J Urol, (2001 Dec) 8 (6) 1419-20.

Journal code: 9515842. ISSN: 1195-9479.

PUB. COUNTRY: Canada

Conference; Conference Article; (CONGRESSES)

LANGUAGE: English

FILE SEGMENT: Priority Journals

ENTRY MONTH: 200202

ENTRY DATE: Entered STN: 20020125

Last Updated on STN: 20020206 Entered Medline: 20020205

L25 ANSWER 41 OF 58 MEDLINE

ACCESSION NUMBER: 2001342867 MEDLINE

DOCUMENT NUMBER: 21298873 PubMed ID: 11406522

TITLE: Importance of NF-kappaB in rheumatoid synovial tissues: in

situ NF-kappaB expression and in vitro study using cultured

synovial cells.

AUTHOR: Yamasaki S; Kawakami A; Nakashima T; Nakamura H; Kamachi M;

Honda S; Hirai Y; Hida A; Ida H; Migita K; Kawabe Y; Koji

T; Furuichi I; Aoyagi T; Eguchi K

CORPORATE SOURCE: The First Department of Internal Medicine, Nagasaki

University School of Medicine, 1-7-1 Sakamoto, Nagasaki,

Japan.

SOURCE: ANNALS OF THE RHEUMATIC DISEASES, (2001 Jul) 60 (7) 678-84.

Journal code: 0372355. ISSN: 0003-4967.

PUB. COUNTRY: England: United Kingdom

Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: English

FILE SEGMENT: Priority Journals

ENTRY MONTH: 200107

ENTRY DATE: Entered STN: 20010716

Last Updated on STN: 20010716 Entered Medline: 20010712

AB OBJECTIVES: To examine whether inhibition of NF-kappaB induces apoptosis of human synovial cells stimulated by tumour necrosis factor alpha (TNFalpha), interleukin lbeta (ILlbeta), and anti-Fas monoclonal antibody (mAb). METHODS: The expression of proliferating cell nuclear antigen (PCNA), NF-kappaB, and the presence of apoptotic synovial cells were

determined in synovial tissues. Apoptosis of cultured synovial cells was induced by inhibition of NF-kappaB nuclear translocation by Z-Leu-Leu-Leu-aldehyde (LLL-CHO). The activation of caspase-3 and expression of XIAP and cIAP2 in synovial cells in LLL-CHO induced apoptosis was also examined. RESULTS: Abundant PCNA+ synovial cells were found in rheumatoid arthritis (RA) synovial tissue, though a few apoptotic synovial cells were also detected in the RA synovial tissues. Nuclear NF-kappaB was expressed in RA synovial cells. Electrophoretic mobility shift assay showed that treatment of cells with TNFalpha or ILlbeta significantly stimulated nuclear NF-kappaB activity. A small number of apoptotic synovial cells expressing intracellular active caspase-3 were found after treatment of cells with LLL-CHO. Although treatment of RA synovial cells with TNFalpha or ILlbeta alone did not induce apoptosis, apoptosis induced by LLL-CHO and caspase-3 activation were clearly enhanced in TNFalpha or ILlbeta stimulated synovial cells compared with unstimulated synovial cells. Furthermore, induction of apoptosis of synovial cells with caspase-3 activation by anti-Fas mAb was clearly increased by LLL-CHO. The expression of cIAP2 and XIAP in synovial cells may not directly influence the sensitivity of synovial cells to apoptosis induced by LLL-CHO. CONCLUSION: The results suggest that NF-kappaB inhibition may be a potentially important therapeutic approach for RA by correcting the imbalance between apoptosis and proliferation of synovial cells in RA synovial tissue.

L25 ANSWER 42 OF 58 MEDLINE

ACCESSION NUMBER: 2001382350 MEDLINE

DOCUMENT NUMBER: 21213761 PubMed ID: 11313831

TITLE: On-demand IC351 (Cialis) enhances erectile function in patients with erectile dysfunction.

AUTHOR: Padma-Nathan H; McMurray J G; Pullman W E; Whitaker J S;

Saoud J B; Ferguson K M; Rosen R C

CORPORATE SOURCE: Keck School of Medicine, University of Southern California,

Los Angeles, California 90212, USA. (IC351 On-Demand Dosing

Study Group).

SOURCE: INTERNATIONAL JOURNAL OF IMPOTENCE RESEARCH, (2001 Feb) 13

(1) 2-9.

Journal code: 9007383. ISSN: 0955-9930.

PUB. COUNTRY: England: United Kingdom

(CLINICAL TRIAL)

Journal; Article; (JOURNAL ARTICLE)

(MULTICENTER STUDY)

(RANDOMIZED CONTROLLED TRIAL)

LANGUAGE: English

FILE SEGMENT: Priority Journals

ENTRY MONTH: 200107

ENTRY DATE: Entered STN: 20010709

Last Updated on STN: 20010709 Entered Medline: 20010705

AB IC351 (Cialis) is a selective inhibitor of PDE5. The efficacy and safety of on-demand dosing of IC351 in men with erectile dysfunction was assessed in a multicenter, double-blind, placebo-controlled study. One hundred seventy-nine men (mean age: 56 y) were randomized to receive placebo or IC351 at doses of 2, 5, 10 or 25 mg, taken on demand over a 3-week period. The primary endpoints were change from baseline in responses to Questions 3 (Q3) and 4 (Q4) of the International Index of Erectile Function (IIEF). IC351 significantly improved IIEF Q3 scores at all doses vs placebo (P < or =0.003). IC351 also significantly improved IIEF Q4 scores in all but the 2 mg group (P < or =0.0003). No significant changes in laboratory values, ECGs, or blood pressure were observed. The most common adverse events were headache and dyspepsia. The conclusion of this study was that

on-demand IC351 at doses up to 25 mg was well tolerated and significantly improved erectile function.

L25 ANSWER 43 OF 58 MEDLINE

ACCESSION NUMBER: 2002005986 MEDLINE

DOCUMENT NUMBER: 21064306 PubMed ID: 11122955

TITLE: Recent developments in male sexual dysfunction.

AUTHOR: Shabsigh I

CORPORATE SOURCE: Department of Urology, Columbia-Presbyterian Medical

Center, 161 Fort Washington Avenue, New York, NY 10032,

USA.. rs66@columbia.edu

SOURCE: Curr Psychiatry Rep, (2000 Jun) 2 (3) 196-200. Ref: 8

Journal code: 100888960. ISSN: 1523-3812.

PUB. COUNTRY: United States

Journal; Article; (JOURNAL ARTICLE)

General Review; (REVIEW)

(REVIEW, TUTORIAL)

LANGUAGE: English

FILE SEGMENT: Priority Journals

ENTRY MONTH: 200204

ENTRY DATE: Entered STN: 20020121

Last Updated on STN: 20020501 Entered Medline: 20020430

AΒ The past few years have witnessed major developments in the management of male sexual dysfunction. The introduction of the first efficacious and safe oral medication (sildenafil) resulted in the expansion of the patient base and, the change in health care delivery, with erectile dysfunction (ED) entering the primary care physician's practice. New guidelines for the diagnosis and treatment of ED have been developed, including the Process of Care in the USA and the 1st International Consultation on ED sponsored by the World Health Organization. Well-defined algorithms for diagnosis and treatment have been adopted. These recent developments have brought up challenging issues, including the cardiovascular safety of sexual activity, societal changes, internet prescriptions, definition of the patient, expansion of clinical and laboratory research, rise of interest in female sexual dysfunction, and a significant economic impact. The recent developments in male sexual dysfunction continue with the study of new oral medications. Some of these new medications, such as sublingual apomorphine, have a central mode of action, whereas others, such as the phosphodiesterase inhibitor IC351, have a selective peripheral vasodilation-enhancing action.

L25 ANSWER 44 OF 58 WPIDS (C) 2002 THOMSON DERWENT

ACCESSION NUMBER:

2000-572170 [53] WPIDS

DOC. NO. CPI:

C2000-170623

TITLE:

New nitrosated and nitrosylated prostaglandins, useful for treating or preventing e.g. sexual dysfunction in

males and females, cerebrovascular disorders and

glaucoma.

DERWENT CLASS: B05

INVENTOR(S): GA

GARVEY, D S; GASTON, R D; LETTS, G L; SAENZ DE TEJADA, I;

TAM, S W; WORCEL, M

PATENT ASSIGNEE(S):

(NITR-N) NITROMED INC

COUNTRY COUNT:

90

PATENT INFORMATION:

PATENT NO KIND DATE WEEK LA PG

WO 2000051978 A1 20000908 (200053)* EN 82

RW: AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW NL OA PT SD SE SL SZ TZ UG ZW

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W: AE AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE DK DM EE ES
       FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS
      LT LU LV MA MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL
      TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW
AU 2000037136 A 20000921 (200065)
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APPLICATION DETAILS:

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APPLICATION DATE
PATENT NO KIND
_______
                   WO 2000-US5286 20000301
WO 2000051978 A1
                    AU 2000-37136 20000301
AU 2000037136 A
```

FILING DETAILS:

```
PATENT NO KIND
                  PATENT NO
_____
AU 2000037136 A Based on WO 200051978
```

PRIORITY APPLN. INFO: US 1999-138502P 19990609; US 1999-122273P 19990301

WO 200051978 A UPAB: 20001023 AB

NOVELTY - Nitrosated and nitrosylated prostaglandins (I) and compositions comprising them are new, also compositions comprising a prostaglandin and S-nitrosothiol compound.

DETAILED DESCRIPTION - Nitrosated and nitrosylated prostaglandins of formula (I) are new:

bonds a', b', c', d' = single or double bonds;

R1 = -OD1 or C1;

R2, R8 = H; or

R1+R2 = -CH2 or =0;

R3, R4 = H, -OD1 or Me;

R5, R6 = H, -OD1, Me, OMe or -CH=CH2;

R7 = H or OD1;

R9 = H or absent when the C to which it is attached is the central carbon of an allene; or

R8+R9+attached chain atoms = a substituted benzene ring provided that R1 is O which is attached to the C at the position of the benzene ring defined by B';

A = -CH=, -CH2-, -S- or -O-; B' = -CH=, -CH2-, -S- or -C(O)-;

X = -CH2OR11, -C(O)OR11 or -C(O)N(D1)R12;

R11 = D1, 1-10C alkyl or a group of formula (i):

R12 = -S(0) 2CH3 or -C(0) CH3;

Z' = ethyl, butyl, hexyl, benzyl, -CH2-O-CH2-CH3, -CH(CH3)-(CH2)3-CH3 or a group of formula (ii) or (iii):

R13 = H or C1;

D1 = H or D; provided that at least 1 D1 is D;

D = Q or K;

Q = -NO or NO2;

K = -Wa-Eb-(C(Re)(Rf))p-Ec-(C(Re)(Rf))x-Wd -(C(Re)(Rf))y-Wi-Ej-Wg-(C(Re)(Rf))z-T-Q;

a, b, c, d, g, i, j = 0-3;

p, x, y, z = 0-10;

E = -T-, alkyl, aryl, (C(Re)(Rf))h-,

W = -C(O)-, -C(S)- or as defined for E;

h = 1 10;

q = 1-5;

Re, Rf = H, alkyl, cycloalkoxy, halo, OH, hydroxyalkyl, alkoxyalkyl, aryl-heterocyclic, alkylaryl, cycloalkylalkyl, heterocyclic-alkyl, alkoxy, haloalkoxy, NH2, alkylamino, dialkylamino, arylamino, diarylamino,

alkylarylamino, alkoxyhaloalkyl, haloalkoxy, sulfonic acid, sulfonic ester, alkylsulfonic acid, arylsulfonic acid, arylalkoxy, alkylthio, arylthio, cycloalkylthio, cycloalkenyl, CN, aminoalkyl, aminoaryl, aryl, arylalkyl, alkylaryl, carboxamido, alkylcarboxamido, arylcarboxamido, amidyl, carboxyl, carbamoyl, alkylcarboxylic acid, arylcarboxylic acid, alkylcarboxylic acid, arylcarboxylic ester, arylcarboxylic ester, carboxylic ester, alkylcarboxylic ester, arylcarboxylic ester, haloalkoxy, sulfonamido, alkylsulfonamido, arylsulfonamido, sulfonic ester, a urea, phosphoryl, nitro, -T-Q or -(C(Re)(Rf))k-T-Q; or

Re+Rf+attached C atoms = carbonyl, methanthial, heterocyclic, cycloalkyl or a bridged cycloalkyl;

= 1-3;

T = a covalent bond, carbonyl, 0, -S(0)o- or -N(Ra)Ri-; c = 0-2;

Ra = a lone pair of electrons, H or alkyl;

Ri = H, alkyl, aryl, alkylcarboxylic acid, arylcarboxylic acid, alkylcarboxylic ester, arylcarboxylic ester, alkylcarboxamido, arylcarboxamido, alkylaryl, alkylsulfinyl, alkylsulfonyl, arylsulfinyl, arylsulfonyl, sulfonamido, carboxamido, carboxylic ester, amino alkyl, amino aryl, -CH2-C(T-Q) (Re) (Rf) or -(N2O2)-M+;

M+ = an organic or inorganic cation;

provided that when Ri is -CH2-C(T-Q) (Re) (Rf) or -(N2O2) M+; or Re or Rf are T-Q or (C(Re)(Rf))k-T-Q, then T-Q can be H, alkyl, alkoxy, alkoxyalkyl, aminoalkyl, OH, heterocyclic or aryl; and provided that when X is -C(O)OD1 and D1 is K, then K is not alkyl or cycloalkyl mononitrate; benzoic acid substituted benzyloxy mononitrate; ethylene glycol mononitrate; polyethylene glycol mononitrate; the regioisomeric esters of glycerol dinitrate and oligomers as disclosed in WO9858910.

INDEPENDENT CLAIMS are included for the following:

- (a) compositions and kits comprising (I) and at least 1 compound that donates, transfers or releases nitric oxide, or induces the production of endogenous nitric oxide or endothelium-derived relaxing factor, or is a substrate for nitric oxide synthase, and/or at least 1 vasoactive agent; and
- (b) compositions and kits comprising at least 1 prostaglandin and at least 1 S-nitrosothiol compound, useful for treating sexual dysfunction, a cerebrovascular disorder, cardiovascular disorder, benign prostatic hyperplasia, organ transplants, glaucoma or peptic ulcer, or for inducing an abortion.

ACTIVITY - Vasotropic; Cerebroprotective; Cardiant; Cytostatic; Ophthalmological; Antiulcer; Gynecological; Relaxant.

MECHANISM OF ACTION - Smooth muscle relaxant; Nitric oxide donor; Endothelium-derived relaxing factor agonist.

USE - For treating or preventing sexual dysfunction in males or females, treating a cerebrovascular disorder, cardiovascular disorder, benign prostatic hyperplasia, organ transplants, glaucoma or peptic ulcer, or for inducing an abortion (all claimed).

ADVANTAGE - The combination of a prostaglandin and a S-nitrosothiol gives synergistic results.

Dwg.0/4

L25 ANSWER 45 OF 58 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.

ACCESSION NUMBER: DOCUMENT NUMBER:

2002:355438 BIOSIS PREV200200355438

TITLE:

Efficacy and safety of tadalafil in men with

erectile dysfunction with and without hypertension.

AUTHOR(S):

Padma-Nathan, H. (1); Brock, G.; McMahon, C.; Chen, K. K.; Anglin, G.; Costigan, T.; Shen, W.; Watkins, V.; Whitaker,

J. S.

CORPORATE SOURCE:

(1) Keck School of Medicine, University of Southern

California, Beverly Hills, CA USA

American Journal of Hypertension, (April, 2002) Vol. 15, SOURCE:

No. 4 Part 2, pp. 143A-144A. http://www.ajh-us.org. print. Meeting Info.: Seventeenth Annual Scientific Meeting of the American Society of Hypertension New York, N.Y., USA May

14-18, 2002 ISSN: 0895-7061.

DOCUMENT TYPE:

Conference English

L25 ANSWER 46 OF 58 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.

ACCESSION NUMBER:

2002:355428 BIOSIS

DOCUMENT NUMBER:

LANGUAGE:

PREV200200355428

TITLE:

Blood pressure and cardiovascular effects of

tadalafil, a new PDE5 inhibitor.

AUTHOR(S):

Hutter, A. M. (1); Kloner, R. A.; Watkins, V.; Costigan,

T.; Bedding, A.; Mitchell, M.; Emmick, J.

CORPORATE SOURCE:

(1) Massachusetts General Hospital, Harvard Medical School,

Boston, MA USA

SOURCE:

American Journal of Hypertension, (April, 2002) Vol. 15, No. 4 Part 2, pp. 140A. http://www.ajh-us.org. print.

Meeting Info.: Seventeenth Annual Scientific Meeting of the American Society of Hypertension New York, N.Y., USA May

14-18, 2002 ISSN: 0895-7061.

DOCUMENT TYPE:

Conference

LANGUAGE:

English

L25 ANSWER 47 OF 58 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.

ACCESSION NUMBER: DOCUMENT NUMBER:

2001:449004 BIOSIS PREV200100449004

TITLE:

CialisTM (IC351) as a treatment of erectile

dysfunction in diabetic men.

AUTHOR(S):

Saenz De Tejada, Inigo (1); Fredlund, Paul (1); Anglin,

Greg (1); Pullman, Bill (1); Emmick, Jeff (1)

CORPORATE SOURCE:

SOURCE:

(1) Madrid Spain Diabetes, (June, 2001) Vol. 50, No. Supplement 2, pp. A425.

Meeting Info.: 61st Scientific Sessions of the American Diabetes Association Philadelphia, Pennsylvania, USA June

22-26, 2001 ISSN: 0012-1797.

DOCUMENT TYPE:

Conference English

LANGUAGE: English SUMMARY LANGUAGE:

L25 ANSWER 48 OF 58 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.

ACCESSION NUMBER: DOCUMENT NUMBER:

2001:380171 BIOSIS PREV200100380171

TITLE:

CialisTM (IC351) provides prompt response and

extended period of responsiveness for the treatment of men

with erectile dysfunction (ED.

AUTHOR(S):

Padma-Nathan, Harin (1); Rosen, Raymond C.; Shabsigh, Ridwan; Saikali, Khalil; Watkins, Vish S.; Pullman, Bill

CORPORATE SOURCE:

(1) Los Angeles, CA USA

SOURCE:

Journal of Urology, (May, 2001) Vol. 165, No. 5 Supplement,

pp. 224. print.

Meeting Info.: Annual Meeting of the American Urological Association, Inc. Anaheim, California, USA June 02-07, 2001

ISSN: 0022-5347.

DOCUMENT TYPE:

LANGUAGE:

Conference English

SUMMARY LANGUAGE: English

L25 ANSWER 49 OF 58 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.

ACCESSION NUMBER: 2001:381536 BIOSIS DOCUMENT NUMBER: PREV200100381536

TITLE: Cellular localisation of phosphodiesterase type 11 (PDE11) in human corpus cavernosum and the contribution of PDE11

inhibition on nerve-stimulated relaxation.

AUTHOR(S): Baxendale, Rhona W. (1); Wayman, Christopher P. (1);

Turner, Leigh (1); Phillips, Stephen C. (1)

CORPORATE SOURCE: (1) Sandwich UK

SOURCE: Journal of Urology, (May, 2001) Vol. 165, No. 5 Supplement,

pp. 223-224. print. Meeting Info.: Annual Meeting of the American Urological Association, Inc. Anaheim, California, USA June 02-07, 2001

ISSN: 0022-5347.

DOCUMENT TYPE: Conference LANGUAGE: English SUMMARY LANGUAGE: English

L25 ANSWER 50 OF 58 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.

ACCESSION NUMBER: 2001:262700 BIOSIS DOCUMENT NUMBER: PREV200100262700

TITLE: CialisTM (IC351): Effective and well-tolerated

treatment for ED.

AUTHOR(S): Brock, G. (1); Iglesias, J.; Toulouse, K.; Ferguson, K.;

Pullman, W.; Anglin, G.

CORPORATE SOURCE: (1) Univ W Ontario, London, ON Canada

SOURCE:

Journal of Andrology, (May June, 2001) No. Supplement, pp.

185. print.

Meeting Info.: VIIth International Congress of Andrology

Montreal, Canada June 15-19, 2001

ISSN: 0196-3635.

DOCUMENT TYPE: Conference LANGUAGE: English SUMMARY LANGUAGE: English

L25 ANSWER 51 OF 58 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.

ACCESSION NUMBER: 2001:389604 BIOSIS DOCUMENT NUMBER: PREV200100389604

TITLE: Efficacy and safety of IC351 treatment for ED.

AUTHOR(S): Brock, G. (1); Iglesias, J.; Toulouse, K.; Ferguson, K.;

Pullman, W.; Anglin, G.

CORPORATE SOURCE: (1) Univ. of W. Ontario, London, ON Canada

SOURCE:

European Urology, (March, 2001) Vol. 39, No. Suppl. 5, pp.

106. print.

Meeting Info.: XVIth Congress of the European Association

of Urology Geneva, Switzerland April 07-10, 2001

ISSN: 0302-2838.

DOCUMENT TYPE: Conference LANGUAGE: English SUMMARY LANGUAGE: English

L25 ANSWER 52 OF 58 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.

ACCESSION NUMBER: 2001:391998 BIOSIS DOCUMENT NUMBER: PREV200100391998

TITLE: IC351 enhances NO-mediated relaxation of human arterial and trabecular penile smooth muscle.

AUTHOR(S): Angulo, J. (1); Gadau, M.; Fernandez, A.; Gabancho, S.;

Author(S):

Angulo, J. (1); Gadau, M.; Fernandez, A.; Gabancho, S.;

Cuevas, P.; Martins, T.; Florio, V.; Ferguson, K.; Saenz De

Tejada, I.

CORPORATE SOURCE:

(1) Hospital Ramon y Cajal, Madrid Spain

SOURCE:

European Urology, (March, 2001) Vol. 39, No. Suppl. 5, pp.

Meeting Info.: XVIth Congress of the European Association

of Urology Geneva, Switzerland April 07-10, 2001

ISSN: 0302-2838.

DOCUMENT TYPE:

Conference English English

LANGUAGE: SUMMARY LANGUAGE:

L25 ANSWER 53 OF 58 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.

ACCESSION NUMBER:

2001:375151 BIOSIS PREV200100375151

DOCUMENT NUMBER: TITLE:

The effect of on-demand IC351 treatment of erectile dysfunction in men with diabetes.

Saenz De Tejada, Inigo (1); Emmick, J.; Anglin, G.;

AUTHOR(S): Fredlund, P.; Pullman, W.

CORPORATE SOURCE:

(1) Hospital Ramon y Cajal, Madrid Spain

SOURCE:

European Urology, (March, 2001) Vol. 39, No. Suppl. 5, pp.

16. print.

Meeting Info.: XVIth Congress of the European Association

of Urology Geneva, Switzerland April 07-10, 2001

ISSN: 0302-2838.

DOCUMENT TYPE:

Conference English

LANGUAGE:

English SUMMARY LANGUAGE:

L25 ANSWER 54 OF 58 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC. 2000:211709 BIOSIS

ACCESSION NUMBER: DOCUMENT NUMBER:

PREV200000211709

TITLE:

Daily and on-demand IC351 treatment of erectile

dysfunction.

AUTHOR(S):

Giuliano, Francois (1); Porst, Hartmut; Padma-Nathan, Harin; Saoud, Jay; Ferguson, Kenneth; Whitaker, Steven;

Pullman, William; Rosen, Raymond

CORPORATE SOURCE:

SOURCE:

(1) Bicetre France

Journal of Urology, (April, 2000) Vol. 163, No. 4 Suppl.,

pp. 201.

Meeting Info.: 95th Annual Meeting of the American

Urological Association, Inc. Atlanta, Georgia, USA April

29, 2000-May 04, 1999

ISSN: 0022-5347.

DOCUMENT TYPE:

Conference English

LANGUAGE:

SUMMARY LANGUAGE: English

L25 ANSWER 55 OF 58 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC. 2000:356087 BIOSIS ACCESSION NUMBER: PREV200000356087 DOCUMENT NUMBER:

TITLE:

On-demand treatment of erectile dysfunction with

AUTHOR(S):

Padma-Nathan, Harin (1); McMurray, James; Saoud, Jay; Ferguson, Kenneth; Pullman, William; Whitaker, Steven;

Rosen, Raymond

CORPORATE SOURCE:

(1) Male Clinic, University of Southern California, Santa

Monica, CA USA

SOURCE:

European Urology, (March, 2000) Vol. 37, No. Suppl. 2, pp.

80. print. Meeting Info.: XVth Congress of the European Association of

Urology Brussels, Belgium April 12-15, 2000

ISSN: 0302-2838.

DOCUMENT TYPE: Conference LANGUAGE: English SUMMARY LANGUAGE: English

L25 ANSWER 56 OF 58 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.

ACCESSION NUMBER: 2000:356088 BIOSIS DOCUMENT NUMBER: PREV200000356088

TITLE: Daily IC351 treatment of erectile dysfunction.

AUTHOR(S): Giuliano, Francois (1); Meuleman, Eric; Saoud, Jay;
Ferguson, Kenneth; Whitaker, Steven; Porst, Hartmut

CORPORATE SOURCE: (1) Department of Urology, University Hospital of Bicetre,

Le Kremlin France

SOURCE: European Urology, (March, 2000) Vol. 37, No. Suppl. 2, pp.

80. print.

Meeting Info.: XVth Congress of the European Association of

Urology Brussels, Belgium April 12-15, 2000

ISSN: 0302-2838.

DOCUMENT TYPE: Conference LANGUAGE: English SUMMARY LANGUAGE: English

L25 ANSWER 57 OF 58 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.

ACCESSION NUMBER: 1999:160377 BIOSIS DOCUMENT NUMBER: PREV199900160377

TITLE: Effects of IC351 on erectile response to visual

sexual stimulation.

AUTHOR(S): Meuleman, Eric; Nijeholt, Guus Lycklama A; Slob, Koos;

Roeleveld; Damen, Lianne; Brazao, Gouveia De C.; Harin,

Padma-Nathan; Rosen, Raymond

CORPORATE SOURCE: Nijmegen Netherlands

SOURCE: Journal of Urology, (April, 1999) Vol. 161, No. 4 SUPPL.,

pp. 212.

Meeting Info.: 94th Annual Meeting of the American

Urological Association, Inc. Dallas, Texas, USA May 1-6,

1999 American Urological Association

. ISSN: 0022-5347.

DOCUMENT TYPE: Conference LANGUAGE: English

L25 ANSWER 58 OF 58 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.

ACCESSION NUMBER: 1980:167480 BIOSIS

DOCUMENT NUMBER: BA69:42476

TITLE: CYTO GENETIC STUDIES ON FISHES 2. KARYOTYPES OF 4 CARANGID

FISHES.

AUTHOR(S): MUROFUSHI M; YOSIDA T H

CORPORATE SOURCE: LAB. BIOL., MISHIMA JR. COLL., NIHON UNIV., MISHIMA, TOKYO

411, JPN.

SOURCE: JPN J GENET, (1979) 54 (5), 367-370.

CODEN: IDZAAW. ISSN: 0021-504X.

FILE SEGMENT: BA; OLD LANGUAGE: English

All Trachurus japonicus, Caranx equula, C. sexfasciatus and Alectis cialis all had a diploid chromosome number of 48. The karotype consisted of all acrocentric chromosomes (no. 1-24) in A. cilialis, but the largest chromosome pair no. 1 was subtelocentric in C. equula and C. sexfasciatus. In T. japonicus the karyotype was different from the other species by consisting of 15 biarmed chromosome pairs (no. 1-15) and 9 acrocentric pairs (no. 16-24). The sex chromosomes cannot be identified in any of the 4 spp. studied. The relationship between karyotype differentiation and species diversity of carangid fishes was discussed.

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